

TO:

**CERTIFICATE
OF
CORRECTION
BRANCH**

ATTN:

MICHELLE WILLIAMS

APP#:

09/476,092

PAT#:

7,209,725

FROM:

HUNTER WILDER



Hunter Wilder
Electrical Group Legal Assistant
Sterne, Kessler, Goldstein & Fox P.L.L.C.
1100 New York Avenue, NW
Washington, DC 20005
Direct: 202.772.8642
Fax: 202.371.2540
Main: 202.371.2600
Email: hwilder@skgf.com
www.skgf.com

NOTE:

After the Certificate of Correction was originally filed, someone (Lamont) informed Mike Lee that the Information Disclosure Statements (IDSs) were needed that supported the Certificate of Correction. Attached are all of the IDSs that were filed at the PTO along with a more descriptive Request for Certificate of Correction. The PTO/SB/44 form did not change, but the Request form did. I am new in this field, so I am not sure what is allowed, but if this can replace the old Request for Certificate of Correction, that would be appreciated. I will be out of the office from Tuesday (7/3) noon till Sunday and will return to the office on Monday (7/9). If you have to contact me, then you could reach me on my cell at 803-316-5508. Thanks, and have a great week!



Robert Greene Sterne
Jorge A. Goldstein
David K.S. Cornwell
Robert W. Esmond
Tracy-Gene G. Durkin
Michele A. Cimballa
Michael B. Ray
Robert E. Sokohl
Eric K. Steffe
Michael Q. Lee
John M. Covert
Robert C. Millonig
Donald J. Featherstone
Timothy J. Shea, Jr.
Michael V. Messenger
Judith U. Kim
Jeffrey U. Hevey
Eldora L. Ellison
Donald R. Banowitz

Peter A. Jackman
Brian J. Del Buono
Mark Fox Evans
Vincent L. Capuano
Elizabeth J. Haanes
Michael D. Specht
Kevin W. McCabe
Glenn J. Perry
Edward W. Yee
Grant E. Reed
Virgil Lee Beason
Theodore A. Wood
Joseph S. Ostroff
Jason D. Eisenberg
Tracy L. Muller
Jon E. Wright
LuAnne M. DeSantis
Ann E. Summerfield
Helene C. Carlson

Cynthia M. Bouchez
Timothy A. Doyle
Gaby L. Longworth
Lori A. Gordon
Laura A. Vogel
Bryan S. Wade
Bashir M.S. Ali
Shannon A. Carroll
Anbar F. Khal
Michelle K. Holoubek
Marsha A. Rose
Scott A. Schaller
Lei Zhou
Young Tang
Christopher J. Walsh
W. Blake Coblenz
James J. Pohl
John T. Haran
Mark W. Rygiel

Michael R. Malek*
Carla Ji-Eun Kim
Doyle A. Siever*
Ulrike Winkler
Bryan L. Skelton*
Paul A. Calvo
Robert A. Schwartzman
C. Matthew Rozier
Alexandra K. Pechhold

Registered Patent Agents*
Karen R. Markowicz
Matthew J. Dowd
Katrina Yujian Pei Quach
Julie A. Helder
Mita Mukherjee

Scott M. Woodhouse
Peter A. Socarras
Jeffrey K. Mills
Danielle L. Letting
Lori Brandes
Steven C. Oppenheimer
Aaron S. Lukas
Gaurav Asthana

Of Counsel
Edward J. Kessler
Kenneth C. Bass III
Marvin C. Guthrie
Christopher P. Wrist

*Admitted only in Maryland
*Admitted only in Virginia
*Practice Limited to
Federal Agencies

May 31, 2007

WRITER'S DIRECT NUMBER:
(202) 772-8674
INTERNET ADDRESS:
MLBB@SKGF.COM

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Art Unit 2686

Attn: Certificate of Correction Branch

Re: U.S. Utility Patent
Patent No. 7,209,725; Issued: April 24, 2007
For: **Analog Zero IF FM Decoder and Embodiments Thereof, Such As The
Family Radio Service**
Inventors: Sorrells *et al.*
Our Ref: 1744.0250001

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Request for Certificate of Correction Under 37 C.F.R. § 1.322; and
2. Form PTO/SB/44 (45 sheets).

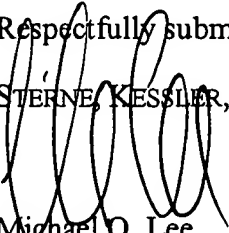
The above-listed documents are filed electronically through EFS-Web.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.


Michael Q. Lee
Attorney for Patentees
Registration No. 35,239

MLQ/ahw
Enclosures

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent of:

Sorrells *et al.*

Patent. No.: 7,209,725

Issued: April 24, 2007

For: **Analog Zero IF FM Decoder and
Embodiments Thereof, Such As
The Family Radio Service**

Confirmation No.: 7304

Art Unit: 2686

Examiner: Naghmeh Mehrpour

Atty. Docket: 1744.0250001

**Request for Certificate of Correction
Under 37 C.F.R. § 1.322**

Attn: Certificate of Correction Branch

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

It is hereby requested that a Certificate of Correction under 37 C.F.R. § 1.322 be issued for the above-captioned United States Patent. This Certificate of Correction is being requested due to mistakes which appear in the printed patent. These mistakes were made by the U.S. Patent and Trademark Office.

Specifically, the printed patent contains the following errors for which a Certificate of Correction is respectfully requested:

Title page, item [56], References Cited section, please add the cited references in the attached PTO/SB/44 form. These references were filed at the PTO in the following manner: Information Disclosure Statement filed January 11, 2002, Third Supplemental Information Disclosure Statement filed July 11, 2003, Fourth Supplemental Information

Disclosure Statement filed September 3, 2003, Sixth Supplemental Information Disclosure Statement filed July 13, 2006, Eighth Supplemental Information Disclosure Statement filed May 7, 2005, Ninth Supplemental Information Disclosure Statement filed October 19, 2005, Eleventh Supplemental Information Disclosure Statement filed May 8, 2006, Thirteenth Supplemental Information Disclosure Statement filed November 7, 2006, and Notice of References Cited dated July 25, 2006. All references contained in the previously stated Information Disclosure Statements were visibly initialed by the Examiner but missing from the issued patent except for some references contained in the Ninth and Third Supplemental Information Disclosure Statement. The foreign and non-patent literature documents on the second page of the Third Supplemental Information Disclosure Statement were filed but not included in the issued patent because they were neither signed or crossed out. It was believed that the Examiner overlooked these references and that they should be included in the issued patent. It was ambiguous from the file wrapper whether the Examiner even considered the Ninth Supplemental Information Disclosure Statement.

Remarks

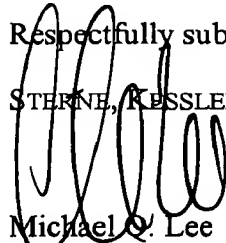
The above-noted corrections do not involve such changes in the patent as would constitute new matter or would require reexamination.

A completed Form PTO/SB/44 accompanies this request, with the above-noted corrections printed thereon. Accordingly, a Certificate of Correction is believed proper and issuance thereof is respectfully requested.

The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Michael Q. Lee
Attorney for Patentees
Registration No. 35,239

Date:

6/4/07

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

DOC#679792_1.DOC

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section

Please add the following references:

2,057,613	10/1936	Gardner
2,241,078	05/1941	Vreeland
2,270,385	01/1942	Skillman
2,283,575	05/1942	Roberts
2,358,152	09/1944	Earp
2,410,350	10/1946	Labin <i>et al.</i>
2,451,430	10/1948	Barone
2,462,069	02/1949	Chatterjea <i>et al.</i>
2,462,181	02/1949	Grosselfinger
2,472,798	06/1949	Fredendall
2,497,859	02/1950	Boughtwood <i>et al.</i>
2,499,279	02/1950	Peterson
2,530,824	11/1950	King
2,802,208	08/1957	Hobbs
2,985,875	05/1961	Grisdale <i>et al.</i>
3,023,309	02/1962	Foulkes
3,069,679	12/1962	Sweeney <i>et al.</i>
3,104,393	09/1963	Vogelman
3,114,106	12/1963	McManus
3,118,117	01/1964	King <i>et al.</i>
3,226,643	12/1965	McNair
3,258,694	06/1966	Shepherd
3,383,598	05/1968	Sanders
3,384,822	05/1968	Miyagi
3,454,718	07/1969	Perreault
3,523,291	08/1970	Pierret

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

Page 2 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 1)

Please add the following references:

3,548,342	12/1970	Maxey
3,555,428	01/1971	Perreault
3,614,627	10/1971	Runyan <i>et al.</i>
3,617,892	11/1971	Hawley <i>et al.</i>
3,617,898	11/1971	Janning, Jr.
3,621,402	11/1971	Gardner
3,623,160	11/1971	Giles <i>et al.</i>
3,626,417	12/1971	Gilbert
3,629,696	12/1971	Bartelink
3,641,442	02/1972	Boucher
3,662,268	05/1972	Gans <i>et al.</i>
3,689,841	09/1972	Bello <i>et al.</i>
3,694,754	09/1972	Baltzer
3,714,577	01/1973	Hayes
3,716,730	02/1973	Cerny, Jr.
3,717,844	02/1973	Barret <i>et al.</i>
3,719,903	03/1973	Goodson
3,735,048	05/1973	Tomsa <i>et al.</i>
3,737,778	06/1973	Van Gerwen <i>et al.</i>
3,739,282	06/1973	Bruch <i>et al.</i>
3,764,921	10/1973	Huard
3,806,811	04/1974	Thompson
3,868,601	02/1975	MacAfee
3,940,697	02/1976	Morgan
3,949,300	04/1976	Sadler
3,967,202	06/1976	Batz

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 3 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 2)

Please add the following references:

3,980,945	09/1976	Bickford
3,987,280	10/1976	Bauer
3,991,277	11/1976	Hirata
4,003,002	01/1977	Snijders et al.
4,013,966	03/1977	Campbell
4,016,366	04/1977	Kurata
4,017,798	04/1977	Gordy et al.
4,019,140	04/1977	Swerdlow
4,032,847	06/1977	Unkauf
4,035,732	07/1977	Lohrmann
4,045,740	08/1977	Baker
4,047,121	09/1977	Campbell
4,051,475	09/1977	Campbell
4,066,841	01/1978	Young
4,066,919	01/1978	Huntington
4,080,573	03/1978	Howell
4,081,748	03/1978	Batz
4,115,737	09/1978	Hongu et al.
4,130,765	12/1978	Arakelian et al.
4,130,806	12/1978	Van Gerwen et al.
4,142,155	02/1979	Adachi
4,143,322	03/1979	Shimamura
4,158,149	06/1979	Otofuji
4,170,764	10/1979	Salz et al.
4,204,171	05/1980	Sutphin, Jr.
4,210,872	07/1980	Gregorian

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

Page 4 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 3)

Please add the following references:

4,241,451	12/1980	Maixner <i>et al.</i>
4,245,355	01/1981	Pascoe <i>et al.</i>
4,253,066	02/1981	Fisher <i>et al.</i>
4,253,067	02/1981	Caples <i>et al.</i>
4,253,069	02/1981	Nossek
4,286,283	08/1981	Clemens
4,308,614	12/1981	Fisher <i>et al.</i>
4,320,361	03/1982	Kikkert
4,320,536	03/1982	Dietrich
4,334,324	06/1982	Hoover
4,346,477	08/1982	Gordy
4,355,401	10/1982	Ikoma <i>et al.</i>
4,356,558	10/1982	Owen <i>et al.</i>
4,360,867	11/1982	Gonda
4,363,132	12/1982	Collin
4,365,217	12/1982	Berger <i>et al.</i>
4,369,522	01/1983	Cerny, Jr. <i>et al.</i>
4,370,572	01/1983	Cosand <i>et al.</i>
4,380,828	04/1983	Moon
4,389,579	06/1983	Stein
4,392,255	07/1983	Del Giudice
4,393,395	07/1983	Hacke <i>et al.</i>
4,430,629	02/1984	Betzel <i>et al.</i>
4,439,787	03/1984	Mogi <i>et al.</i>
4,446,438	05/1984	Chang <i>et al.</i>
4,456,990	06/1984	Fisher <i>et al.</i>

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 5 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 4)

Please add the following references:

4,472,785	09/1984	Kasuga
4,479,226	10/1984	Prabhu et al.
4,481,490	11/1984	Huntley
4,481,642	11/1984	Hanson
4,484,143	11/1984	French et al.
4,485,488	11/1984	Houdart
4,504,803	03/1985	Lee et al.
4,517,519	05/1985	Mukaiyama
4,517,520	05/1985	Ogawa
4,518,935	05/1985	van Roermund
4,521,892	06/1985	Vance et al.
4,562,414	12/1985	Linder <i>et al.</i>
4,577,157	03/1986	Reed
4,583,239	04/1986	Vance
4,591,736	05/1986	Hirao et al.
4,591,930	05/1986	Baumeister
4,563,773	07/1986	Dixon, Jr. et al.
4,602,220	07/1986	Kurihara
4,603,300	07/1986	Welles, II et al.
4,612,464	09/1986	Ishikawa et al.
4,612,518	09/1986	Gans et al.
4,616,191	10/1986	Galani et al.
4,621,217	11/1986	Saxe et al.
4,628,517	12/1986	Schwarz et al.
4,634,998	01/1987	Crawford
4,648,021	03/1987	Alberkrack

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

Page 6 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 5)

Please add the following references:

4,651,034	03/1987	Sato
4,653,117	03/1987	Heck
4,675,882	06/1987	Lillie et al.
4,688,253	08/1987	Gumm
4,716,376	12/1987	Daudelin
4,716,388	12/1987	Jacobs
4,718,113	01/1988	Rother et al.
4,726,041	02/1988	Prohaska et al.
4,733,403	03/1988	Simone
4,734,591	03/1988	Ichitsubo
4,737,969	04/1988	Steel et al.
4,740,675	04/1988	Brosnan et al.
4,740,792	04/1988	Sagey <i>et al.</i>
4,743,858	05/1988	Everard
4,745,463	05/1988	Lu
4,751,468	06/1988	Agoston
4,757,538	07/1988	Zink
4,768,187	08/1988	Marshall
4,769,612	09/1988	Tamakoshi et al.
4,785,463	11/1988	Janc et al.
4,789,837	12/1988	Ridgers
4,791,584	12/1988	Greivenkamp, Jr.
4,801,823	01/1989	Yokoyama
4,806,790	02/1989	Sone
4,810,904	03/1989	Crawford
4,810,976	03/1989	Cowley et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW

Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 7 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 6)

Please add the following references:

4,811,362	03/1989	Yester, Jr. et al.
4,811,422	03/1989	Kahn
4,814,649	03/1989	Young
4,816,704	03/1989	Fiori, Jr.
4,819,252	04/1989	Christopher
4,833,445	05/1989	Buchele
4,841,265	06/1989	Watanabe et al.
4,845,389	07/1989	Pyndiah <i>et al.</i>
4,855,894	08/1989	Asahi et al.
4,862,121	08/1989	Hochschild et al.
4,866,441	09/1989	Conway <i>et al.</i>
4,868,654	09/1989	Juri et al.
4,870,659	09/1989	Oishi et al.
4,871,987	10/1989	Kawase
4,885,587	12/1989	Wiegand et al.
4,885,671	12/1989	Peil
4,885,756	12/1989	Fontanes et al.
4,888,557	12/1989	Puckette, IV et al.
4,890,302	12/1989	Muilwijk
4,893,316	01/1990	Janc et al.
4,893,341	01/1990	Gehring
4,894,766	01/1990	De Agro
4,896,152	01/1990	Tiemann
4,902,979	02/1990	Puckette, IV
4,908,579	03/1990	Tawfik et al.
4,910,752	03/1990	Yester, Jr. et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW

Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 8 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 7)

Please add the following references:

4,914,405	04/1990	Wells
4,920,510	04/1990	Senderowicz <i>et al.</i>
4,922,452	05/1990	Larsen <i>et al.</i>
4,931,716	06/1990	Jovanovic <i>et al.</i>
4,931,921	06/1990	Anderson
4,943,974	07/1990	Motamedi
4,944,025	07/1990	Gehring <i>et al.</i>
4,955,079	09/1990	Connerney <i>et al.</i>
4,965,467	10/1990	Bilteerijst
4,967,160	10/1990	Quievy <i>et al.</i>
4,970,703	11/1990	Hariharan <i>et al.</i>
4,982,353	01/1991	Jacob <i>et al.</i>
4,984,077	01/1991	Uchida
4,995,055	02/1991	Weinberger <i>et al.</i>
5,003,621	03/1991	Gailus
5,005,169	04/1991	Bronder <i>et al.</i>
5,006,810	04/1991	Popescu
5,010,585	04/1991	Garcia
5,014,130	05/1991	Heister <i>et al.</i>
5,014,304	05/1991	Nicollini <i>et al.</i>
5,015,963	05/1991	Sutton
5,017,924	05/1991	Guiberteau <i>et al.</i>
5,020,149	05/1991	Hemmie
5,020,154	05/1991	Zierhut
5,052,050	09/1991	Collier <i>et al.</i>
5,063,387	11/1991	Mower

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 9 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 8)

Please add the following references:

5,065,409	11/1991	Hughes <i>et al.</i>
5,083,050	01/1992	Vasile
5,091,921	02/1992	Minami
5,095,533	03/1992	Loper <i>et al.</i>
5,095,536	03/1992	Loper
5,111,152	05/1992	Makino
5,113,094	05/1992	Grace <i>et al.</i>
5,113,129	05/1992	Hughes
5,115,409	05/1992	Stepp
5,122,765	06/1992	Pataut
5,124,592	06/1992	Hagino
5,126,682	06/1992	Weinberg <i>et al.</i>
5,131,014	07/1992	White
5,136,267	08/1992	Cabot
5,140,699	08/1992	Kozak
5,140,705	08/1992	Kosuga
5,150,124	09/1992	Moore <i>et al.</i>
5,151,661	09/1992	Caldwell <i>et al.</i>
5,159,710	10/1992	Cusdin
5,164,985	11/1992	Nysen <i>et al.</i>
5,170,414	12/1992	Silvian
5,172,019	12/1992	Naylor <i>et al.</i>
5,172,070	12/1992	Hiraiwa <i>et al.</i>
5,191,459	03/1993	Thompson <i>et al.</i>
5,204,642	04/1993	Ashgar <i>et al.</i>
5,212,827	05/1993	Meszko <i>et al.</i>
5,214,787	05/1993	Karkota, Jr.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 10 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 9)

Please add the following references:

5,220,583	06/1993	Solomon
5,220,680	06/1993	Lee
5,222,144	06/1993	Whikehart
5,230,097	07/1993	Currie <i>et al.</i>
5,239,686	08/1993	Downey
5,239,687	08/1993	Chen
5,241,561	08/1993	Barnard
5,249,203	09/1993	Loper
5,251,218	10/1993	Stone <i>et al.</i>
5,251,232	10/1993	Nonami
5,260,970	11/1993	Henry <i>et al.</i>
5,263,194	11/1993	Ragan
5,263,196	11/1993	Jasper
5,263,198	11/1993	Geddes <i>et al.</i>
5,267,023	11/1993	Kawasaki
5,278,826	01/1994	Murphy <i>et al.</i>
5,282,023	01/1994	Scarpa
5,287,516	02/1994	Schaub
5,293,398	03/1994	Hamao <i>et al.</i>
5,303,417	04/1994	Laws
5,307,517	04/1994	Rich
5,315,583	05/1994	Murphy <i>et al.</i>
5,319,799	06/1994	Morita
5,321,852	06/1994	Seong
5,325,204	06/1994	Scarpa
5,337,014	08/1994	Najle <i>et al.</i>
5,339,054	08/1994	Taguchi

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

Page 11 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 10)

Please add the following references:

5,339,459	08/1994	Schiltz et al.
5,353,306	10/1994	Yamamoto
5,355,114	10/1994	Sutterlin et al.
5,361,408	11/1994	Watanabe et al.
5,369,404	11/1994	Galton
5,369,800	11/1994	Takagi et al.
5,375,146	12/1994	Chalmers
5,379,040	01/1995	Mizomoto et al.
5,379,141	01/1995	Thompson et al.
5,388,063	02/1995	Takatori et al.
5,390,215	02/1995	Anita <i>et al.</i>
5,390,364	02/1995	Webster et al.
5,400,084	03/1995	Scarpa
5,404,127	04/1995	Lee et al.
5,410,541	04/1995	Hotto
5,410,743	04/1995	Seely et al.
5,412,352	05/1995	Graham
5,416,803	05/1995	Janer
5,422,913	06/1995	Wilkinson
5,423,082	06/1995	Cygan et al.
5,428,638	06/1995	Cioffi et al.
5,428,640	06/1995	Townley
5,434,546	07/1995	Palmer
5,438,692	08/1995	Mohindra
5,444,415	08/1995	Dent et al.
5,444,416	08/1995	Ishikawa et al.
5,444,865	08/1995	Heck et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW

Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 12 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 11)

Please add the following references:

5,446,421	08/1995	Kechkaylo
5,446,422	08/1995	Mattila et al.
5,448,602	09/1995	Ohmori et al.
5,451,899	09/1995	Lawton
5,454,007	09/1995	Dutta
5,454,009	09/1995	Fruit et al.
5,463,356	10/1995	Palmer
5,463,357	10/1995	Hobden
5,465,071	11/1995	Kobayashi et al.
5,465,410	11/1995	Hiben et al.
5,465,415	11/1995	Bien
5,465,418	11/1995	Zhou et al.
5,471,162	11/1995	McEwan
5,479,120	12/1995	McEwan
5,479,447	12/1995	Chow et al.
5,483,193	01/1996	Kennedy et al.
5,483,549	01/1996	Weinberg et al.
5,483,600	01/1996	Werrbach
5,483,691	01/1996	Heck et al.
5,490,173	02/1996	Whikehart et al.
5,493,581	02/1996	Young et al.
5,493,721	02/1996	Reis
5,495,200	02/1996	Kwan et al.
5,495,202	02/1996	Hsu
5,495,500	02/1996	Jovanovich et al.
5,499,267	03/1996	Ohe et al.
5,500,758	03/1996	Thompson et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 13 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 12)

Please add the following references:

5,513,389	04/1996	Reeser et al.
5,515,014	05/1996	Troutman
5,517,688	05/1996	Fajen et al.
5,519,890	05/1996	Pinckley
5,523,719	06/1996	Longo et al.
5,523,726	06/1996	Kroeger et al.
5,523,760	06/1996	McEwan
5,535,402	07/1996	Leibowitz <i>et al.</i>
5,539,770	07/1996	Ishigaki
5,551,076	08/1996	Bonn
5,552,789	09/1996	Schuermann
5,555,453	09/1996	Kajimoto et al.
5,557,641	09/1996	Weinberg
5,557,642	09/1996	Williams
5,563,550	10/1996	Toth
5,574,755	11/1996	Persico
5,579,341	11/1996	Smith et al.
5,579,347	11/1996	Lindquist et al.
5,584,068	12/1996	Mohindra
5,592,131	01/1997	Labreche et al.
5,602,847	02/1997	Pagano et al.
5,602,868	02/1997	Wilson
5,604,592	02/1997	Kotidis et al.
5,604,732	02/1997	Kim et al.
5,608,531	03/1997	Honda et al.
5,610,946	03/1997	Tanaka et al.
5,617,451	04/1997	Mimura et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 14 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 13)

Please add the following references:

5,619,538	04/1997	Sempel <i>et al.</i>
5,621,455	04/1997	Rogers <i>et al.</i>
RE 35,494	04/1997	Nicollini
5,630,227	05/1997	Bella <i>et al.</i>
5,633,610	05/1997	Maekawa <i>et al.</i>
5,634,207	05/1997	Yamaji <i>et al.</i>
5,638,396	06/1997	Klimek
5,640,415	06/1997	Pandula
5,640,424	06/1997	Banavong <i>et al.</i>
5,640,428	06/1997	Abe <i>et al.</i>
5,640,698	06/1997	Shen <i>et al.</i>
5,642,071	06/1997	Sevenhans <i>et al.</i>
5,648,985	07/1997	Bjerede <i>et al.</i>
5,650,785	07/1997	Rodal
5,661,424	08/1997	Tang
5,663,878	09/1997	Walker
5,663,986	09/1997	Striffler
5,668,836	09/1997	Smith <i>et al.</i>
5,675,392	10/1997	Nayebi <i>et al.</i>
5,680,078	10/1997	Ariie
5,680,418	10/1997	Croft <i>et al.</i>
5,689,413	11/1997	Jaramillo <i>et al.</i>
5,694,096	12/1997	Ushiroku <i>et al.</i>
5,699,006	12/1997	Zelev <i>et al.</i>
5,705,949	01/1998	Alelyunas <i>et al.</i>
5,705,955	01/1998	Freeburg <i>et al.</i>
5,710,992	01/1998	Sawada <i>et al.</i>

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 15 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 14)

Please add the following references:

5,710,998	01/1998	Opas
5,714,910	02/1998	Skoczen <i>et al.</i>
5,715,281	02/1998	Bly <i>et al.</i>
5,721,514	02/1998	Crockett <i>et al.</i>
5,724,002	03/1998	Hulick
5,724,653	03/1998	Baker <i>et al.</i>
5,729,577	03/1998	Chen
5,729,829	03/1998	Talwar <i>et al.</i>
5,732,333	03/1998	Cox <i>et al.</i>
5,734,683	03/1998	Hulkko <i>et al.</i>
5,736,895	04/1998	Yu <i>et al.</i>
5,737,035	04/1998	Rotzoll
5,742,189	04/1998	Yoshida <i>et al.</i>
5,748,683	05/1998	Smith <i>et al.</i>
5,751,154	05/1998	Tsugai
5,757,870	05/1998	Miya <i>et al.</i>
5,760,645	06/1998	Comte <i>et al.</i>
5,764,087	06/1998	Clark
5,767,726	06/1998	Wang
5,768,118	06/1998	Faulk <i>et al.</i>
5,768,323	06/1998	Kroeger <i>et al.</i>
5,770,985	06/1998	Ushiroku <i>et al.</i>
5,771,442	06/1998	Wang <i>et al.</i>
RE 35,829	06/1998	Sanderford, Jr.
5,777,692	07/1998	Ghosh
5,777,771	07/1998	Smith
5,778,022	07/1998	Walley

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 16 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 15)

Please add the following references:

5,786,844	07/1998	Rogers <i>et al.</i>
5,790,587	08/1998	Smith <i>et al.</i>
5,793,801	08/1998	Fertner
5,793,817	08/1998	Wilson
5,793,818	08/1998	Claydon <i>et al.</i>
5,801,654	09/1998	Traylor
5,802,463	09/1998	Zuckerman
5,805,460	09/1998	Greene <i>et al.</i>
5,809,060	09/1998	Cafarella <i>et al.</i>
5,812,546	09/1998	Zhou <i>et al.</i>
5,818,582	10/1998	Fernandez <i>et al.</i>
5,818,869	10/1998	Miya <i>et al.</i>
5,825,254	10/1998	Lee
5,825,257	10/1998	Klymyshyn <i>et al.</i>
5,834,985	11/1998	Sundegård
5,834,987	11/1998	Dent
5,841,324	11/1998	Williams
5,841,811	11/1998	Song
5,844,449	12/1998	Abeno <i>et al.</i>
5,847,594	12/1998	Mizuno
5,859,878	01/1999	Phillips <i>et al.</i>
5,864,754	01/1999	Hotto
5,872,446	02/1999	Cranford, Jr. <i>et al.</i>
5,881,375	03/1999	Bonds
5,883,548	03/1999	Assard <i>et al.</i>
5,892,380	04/1999	Quist
5,894,239	04/1999	Bonaccio <i>et al.</i>

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 17 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 16)

Please add the following references:

5,894,496	04/1999	Jones
5,896,562	04/1999	Heinonen
5,900,747	05/1999	Brauns
5,901,054	05/1999	Leu et al.
5,901,187	05/1999	Iinuma
5,901,344	05/1999	Opas
5,901,347	05/1999	Chambers et al.
5,901,348	05/1999	Bang et al.
5,901,349	05/1999	Guegnaud et al.
5,903,178	05/1999	Miyatsuji et al.
5,903,187	05/1999	Claverie et al.
5,903,196	05/1999	Salvi et al.
5,903,421	05/1999	Furutani et al.
5,903,553	05/1999	Sakamoto et al.
5,903,595	05/1999	Suzuki
5,903,609	05/1999	Kool et al.
5,903,827	05/1999	Kennan et al.
5,903,854	05/1999	Abe et al.
5,905,433	05/1999	Wortham
5,905,449	05/1999	Tsubouchi et al.
5,907,149	05/1999	Marckini
5,907,197	05/1999	Faulk
5,909,447	06/1999	Cox et al.
5,911,116	06/1999	Nosswitz
5,911,123	06/1999	Shaffer et al.
5,914,622	06/1999	Inoue
5,915,278	06/1999	Mallick

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 18 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 17)

Please add the following references:

5,918,167	06/1999	Tiller <i>et al.</i>
5,920,199	07/1999	Sauer
5,933,467	08/1999	Sehier <i>et al.</i>
5,943,370	08/1999	Smith
5,952,895	09/1999	McCune, Jr. <i>et al.</i>
5,953,642	09/1999	Feldtkeller <i>et al.</i>
5,959,850	09/1999	Lim
5,960,033	09/1999	Shibano <i>et al.</i>
5,986,600	11/1999	McEwan
5,994,689	11/1999	Charrier
6,011,435	01/2000	Takeyabu <i>et al.</i>
6,028,887	02/2000	Harrison <i>et al.</i>
6,034,566	03/2000	Ohe
6,041,073	03/2000	Davidovici <i>et al.</i>
6,054,889	04/2000	Kobayashi
6,057,714	05/2000	Andrys <i>et al.</i>
6,081,691	06/2000	Renard <i>et al.</i>
6,084,922	07/2000	Zhou <i>et al.</i>
6,121,819	09/2000	Traylor
6,125,271	09/2000	Rowland <i>et al.</i>
6,144,236	11/2000	Vice <i>et al.</i>
6,144,846	11/2000	Durec
6,147,340	11/2000	Levy
6,147,763	11/2000	Steinlechner
6,150,890	11/2000	Damgaard <i>et al.</i>
6,175,728 B1	01/2001	Mitama
6,211,718 B1	04/2001	Souetinov

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 19 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 18)

Please add the following references:

6,212,369 B1	04/2001	Avasarala
RE37,138 E	04/2001	Dent
6,225,848 B1	05/2001	Tilley <i>et al.</i>
6,308,058 B1	10/2001	Souetinov <i>et al.</i>
6,313,685 B1	11/2001	Rabii
6,313,700 B1	11/2001	Nishijima <i>et al.</i>
6,321,073 B1	11/2001	Luz <i>et al.</i>
6,393,070 B1	05/2002	Reber
6,404,758 B1	06/2002	Wang
6,441,659 B1	08/2002	Demone
6,441,694 B1	08/2002	Turcotte <i>et al.</i>
6,445,726 B1	09/2002	Gharpurey
6,512,544 B1	01/2003	Merrill <i>et al.</i>
6,512,785 B1	01/2003	Zhou <i>et al.</i>
6,560,451 B1	05/2003	Somayajula
6,567,483 B1	05/2003	Dent <i>et al.</i>
6,591,310 B1	07/2003	Johnson
6,628,328 B1	09/2003	Yokouchi <i>et al.</i>
6,633,194 B2	10/2003	Arnborg <i>et al.</i>
6,647,270 B1	11/2003	Himmelstein
6,741,650 B1	05/2004	Painchaud <i>et al.</i>
6,775,684 B1	08/2004	Toyoyama <i>et al.</i>
6,801,253 B1	10/2004	Yonemoto <i>et al.</i>
6,865,399 B2	03/2005	Fujioka <i>et al.</i>
6,873,836 B1	03/2005	Sorrells <i>et al.</i>
6,879,817 B1	04/2005	Sorrells <i>et al.</i>
6,892,057 B2	05/2005	Nilsson
6,909,739 B1	06/2005	Eerola <i>et al.</i>
6,910,015 B2	06/2005	Kawai

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 20 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 19)

Please add the following references:

6,959,178 B2	10/2005	Macedo <i>et al.</i>
6,963,626 B1	11/2005	Shaeffer <i>et al.</i>
6,973,476 B1	12/2005	Naden <i>et al.</i>
6,975,848 B2	12/2005	Rawlins <i>et al.</i>
6,999,747 B2	02/2006	Su
7,006,805 B1	02/2006	Sorrells <i>et al.</i>
7,010,286 B2	03/2006	Sorrells <i>et al.</i>
7,010,559 B2	03/2006	Rawlins <i>et al.</i>
7,016,663 B2	03/2006	Sorrells <i>et al.</i>
7,027,786 B1	04/2006	Smith <i>et al.</i>
7,039,372 B1	05/2006	Sorrells <i>et al.</i>
7,050,058 B2	05/2006	Sorrells <i>et al.</i>
7,054,296 B1	05/2006	Sorrells <i>et al.</i>
7,065,162 B1	06/2006	Sorrells <i>et al.</i>
7,072,390 B1	07/2006	Sorrells <i>et al.</i>
7,072,427 B2	07/2006	Rawlins <i>et al.</i>
7,076,011 B2	07/2006	Cook <i>et al.</i>
7,082,171 B1	07/2006	Johnson <i>et al.</i>
7,085,335 B2	08/2006	Rawlins <i>et al.</i>
7,107,028 B2	09/2006	Sorrells <i>et al.</i>
7,110,435 B1	09/2006	Sorrells <i>et al.</i>
7,110,444 B1	09/2006	Sorrells <i>et al.</i>
2001/0036818 A1	11/2001	Dobrovolny
2002/0132642 A1	09/2002	Hines <i>et al.</i>
2003/0149579 A1	08/2003	Begemann <i>et al.</i>
2004/0125879 A1	07/2004	Jaussi <i>et al.</i>
2006/0039449 A1	02/2006	Fontana <i>et al.</i>

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 21 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], FOREIGN PATENT DOCUMENTS Section

Please add the following references:

DE 35 41 031 A1	05/1986	DE
DE 42 37 692 C1	03/1994	DE
DE 692 21 098 T2	01/1998	DE
DE 197 35 798 C1	07/1998	DE
DT 1936252	01/1971	DT
EP 0 035 166 A1	09/1981	EP
EP 0 099 265 A1	01/1984	EP
EP 0 193 899 B1	06/1990	EP
EP 0 380 351 A2	08/1990	EP
EP 0 380 351 A3	02/1991	EP
EP 0 411 840 A2	02/1991	EP
EP 0 411 840 A3	07/1991	EP
EP 0 411 840 B1	10/1995	EP
EP 0 423 718 A2	04/1991	EP
EP 0 423 718 A3	08/1992	EP
EP 0 486 095 A1	05/1992	EP
EP 0 512 748 A2	11/1992	EP
EP 0 529 836 A1	03/1993	EP
EP 0 548 542 A1	06/1993	EP
EP 0 512 748 A3	07/1993	EP
EP 0 560 228 A1	09/1993	EP
EP 0 632 288 A2	01/1995	EP
EP 0 643 477 A2 & A3	03/1995	EP
EP 0 486 095 B1	02/1997	EP
EP 0 512 748 B1	11/1998	EP
EP 0 632 288 A3	07/1996	EP

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 22 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], FOREIGN PATENT DOCUMENTS Section (Continued from page 21)

Please add the following references:

EP 0 696 854 A1	02/1996	EP
EP 0 732 803 A1	09/1996	EP
EP 0 782 275 A2	07/1997	EP
EP 0 785 635 A1	07/1997	EP
EP 0 795 955 A2&A3	09/1997	EP
EP 0 795 978 A2	09/1997	EP
EP 0 817 369 A2&A3	01/1998	EP
EP 0 837 565 A1	04/1998	EP
EP 0 862 274 A1	09/1998	EP
EP 0 874 499 A2	10/1998	EP
EP 0 877 476 A1	11/1998	EP
EP 0 977 351 A1	02/2000	EP
FR 2 245 130	04/1975	FR
FR 2 743 231 A1	07/1997	FR
GB 2 161 344 A	01/1986	GB
GB 2 215 945 A	09/1989	GB
JP 56-114451	09/1981	JP
JP 59-144249	08/1984	JP
JP 61-232706	10/1986	JP
JP 62-12381	01/1987	JP
JP 63-54002	03/1988	JP
JP 2-131629	05/1990	JP
JP 2-276351	11/1990	JP
JP 2-39632	02/1990	JP
JP 4-154227	05/1992	JP
JP 6-237276	08/1994	JP

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 23 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], FOREIGN PATENT DOCUMENTS Section (Continued from page 22)

Please add the following references:

JP 6-284038	10/1994	JP
JP 8-139524	05/1996	JP
JP 8-23359	01/1996	JP
JP 8-32556	02/1996	JP
JP 9-171399	06/1997	JP
JP 9-36664	02/1997	JP
JP 10-173563	06/1998	JP
JP 10-41860	02/1998	JP
JP 10-96778	04/1998	JP
JP 11-98205	04/1999	JP
WO 80/01633 A1	08/1980	PCT
WO 91/18445 A1	11/1991	PCT
WO 94/05087 A1	03/1994	PCT
WO 96/02977 A1	02/1996	PCT
WO 96/08078 A1	03/1996	PCT
WO 96/39750 A1	12/1996	PCT
WO 97/38490 A1	10/1997	PCT
WO 98/00953 A1	01/1998	PCT
WO 98/24201 A1	06/1998	PCT
WO 98/40968 A2&A3	09/1998	PCT
WO 98/53556 A2	11/1998	PCT
WO 99/23755 A1	05/1999	PCT
WO 00/31659 A1	06/2000	PCT

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 24 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section

Please add the following references:

English-language Abstract of Japanese Patent Publication No. JP 61-232706, data supplied by the espacenet, 1 page (October 17, 1986 - Date of publication of application).

English-language Abstract of Japanese Patent Publication No. JP 9-171399, data supplied by the espacenet, 1 page (June 30, 1997 - Date of publication of application).

English-language Abstract of Japanese Patent Publication No. JP 10-41860, data supplied by the espacenet, 1 page (February 13, 1998 - Date of publication of application).

English-language Computer Translation of Japanese Patent Publication No. JP 10-173563, provided by the JPO, 10 pages (June 26, 1998 - Date of publication of application) and cited in U.S. Patent Application Ser. No. 10/305,299, directed to related subject matter.

What is I/Q Data?, printed September 16, 2006, from <http://zone.ni.com>, 8 pages (Copyright 2003).

Gaudiosi, J., "Retailers will bundle Microsoft's Xbox with games and peripherals," *Video Store Magazine*, Volume 23, Issue 36, pg. 8, 2 pages (September 2-8, 2001).

English-language Translation of German Patent Publication No. DT 1936252, translation provided by Transperfect Translations, 12 pages (January 28, 1971 - Date of publication of application).

English-language Abstract of Japanese Patent Publication No. JP 62-12381, data supplied by the espacenet, 1 page (January 21, 1987 - Date of publication of application).

English-language Abstract of Japanese Patent Publication No. JP 4-154227, data supplied by the espacenet, 1 page (May 27, 1992 - Date of publication of application).

English-language Abstract of Japanese Patent Publication No. JP 6-284038, data supplied by the espacenet, 1 page (October 7, 1994 - Date of publication of application).

English-language Abstract of Japanese Patent Publication No. JP 10-96778, data supplied by the espacenet, 1 page (April 14, 1998 - Date of publication of application).

English-language Abstract of Japanese Patent Publication No. JP 11-98205, data supplied by the espacenet, 1 page (April 9, 1999 - Date of publication of application).

Hellwarth, G.A. and Jones, G.D., "Automatic Conditioning of Speech Signals," *IEEE Transactions on Audio and Electroacoustics*, Vol. AU-16, No. 2, pp. 169-179 (June 1968).

English Abstract for German Patent No. DE 692 21 098 T2, 1 page, data supplied from the espacenet.

English-language abstract for Japanese Patent Application Publication Number. JP 09-036664, from <http://www19.ipdl.jpo.go.jp>, 2 pages (Date of publication of application - February 7, 1997).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 25 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 24)

Please add the following references:

- Tayloe, D., "A Low-noise, High-performance Zero IF Quadrature Detector/Preamplifier," RF Design, Primedia Business Magazines & Media, Inc., pp. 58, 60, 62 and 69 (March 2003).
- Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," IEEE Journal of Selected Topics in Quantum Electronics, IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996).
- Simoni, A. et al., "A Digital Camera for Machine Vision," 20th International Conference on Industrial Electronics, Control and Instrumentation, IEEE, pp. 879-883 (September 1994).
- Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," Electronics & Communication Engineering Journal, IEEE, pp. 37-47 (February 1998).
- Rudell, J.C. et al., "A 1.9-GHz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," IEEE Journal of Solid-State Circuits, IEEE, Vol. 32, No. 12, pp. 2071-2088 (December 1997).
- Aghvami, H. et al., "Land Mobile Satellites Using the Highly Elliptic Orbits- The UK T-SAT Mobile Payload," Fourth International Conference on Satellite Systems for Mobile Communications and Navigation, IEE, pp. 147-153 (October 17-19, 1988).
- Akers, N.P. et al., "RF Sampling Gates: a Brief Review," IEE Proceedings, IEE, Vol. 133, Part A, No. 1, pp. 45-49 (January 1986).
- Al-Ahmad, H.A.M. et al., "Doppler Frequency Correction for a Non-Geostationary Communications Satellite. Techniques for CERS and T-SAT," Electronics Division Colloquium on Low Noise Oscillators and Synthesizers, IEE, pp. 4/1-4/5 (January 23, 1986).
- Ali, I. et al., "Doppler Characterization for LEO Satellites," IEEE Transactions on Communications, IEEE, Vol. 46, No. 3, pp. 309-313 (March 1998).
- Allan, D.W., "Statistics of Atomic Frequency Standards," Proceedings Of The IEEE Special Issue on Frequency Stability, IEEE, pp. 221-230 (February 1966).
- Allstot, D.J. et al., "MOS Switched Capacitor Ladder Filters," IEEE Journal of Solid-State Circuits, IEEE, Vol. SC-13, No. 6, pp. 806-814 (December 1978).
- Allstot, D.J. and Black Jr. W.C., "Technological Design Considerations for Monolithic MOS Switched-Capacitor Filtering Systems," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 967-986 (August 1983).
- Alouini, M. et al., "Channel Characterization and Modeling for Ka-Band Very Small Aperture Terminals," Proceedings Of the IEEE, IEEE, Vol. 85, No. 6, pp. 981-997 (June 1997).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 26 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 25)

Please add the following references:

Andreyev, G.A. and Ogarev, S.A., "Phase Distortions of Keyed Millimeter-Wave Signals in the Case of Propagation in a Turbulent Atmosphere," Telecommunications and Radio Engineering, Scripta Technica, Vol. 43, No. 12, pp. 87-90 (December 1988).

Antonetti, A. et al., "Optoelectronic Sampling in the Picosecond Range," Optics Communications, North-Holland Publishing Company, Vol. 21, No. 2, pp. 211-214 (May 1977).

Austin, J. et al., "Doppler Correction of the Telecommunication Payload Oscillators in the UK T-SAT," 18th European Microwave Conference, Microwave Exhibitions and Publishers Ltd., pp. 851-857 (September 12 - 15, 1988).

Auston, D.H., "Picosecond optoelectronic switching and gating in silicon," Applied Physics Letters, American Institute of Physics, Vol. 26, No. 3, pp. 101-103 (February 1, 1975).

Baher, H., "Transfer Functions for Switched-Capacitor and Wave Digital Filters," IEEE Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. CAS-33, No. 11, pp. 1138-1142 (November 1986).

Baines, R., "The DSP Bottleneck," IEEE Communications Magazine, IEEE Communications Society, pp. 46-54 (May 1995).

Banjo, O.P. and Vilar, E., "Binary Error Probabilities on Earth-Space Links Subject to Scintillation Fading," Electronics Letters, IEE, Vol. 21, No. 7, pp. 296-297 (March 28, 1985).

Banjo, O.P. and Vilar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological Parameters," Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation, IEE, pp. 277-280 (March 30 - April 2, 1987).

Banjo, O.P. and Vilar, E., "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-Space Paths and Impact on Communication Systems," IEEE Transactions on Communications, IEEE Communications Society, Vol. COM-34, No. 8, pp. 774-780 (August 1986).

Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," Fourth International Conference on Antennas and Propagation (ICAP 85), IEE, pp. 77-82 (April 16-19, 1985).

Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antennas and Propagation, IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).

Basili, P. et al., "Observation of High C2 and Turbulent Path Length on OTS Space-Earth Link," Electronics Letters, IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).

Blakey, J.R. et al., "Measurement of Atmospheric Millimetre-Wave Phase Scintillations in an Absorption Region," Electronics Letters, IEE, Vol. 21, No. 11, pp. 486-487 (May 23, 1985).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 27 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 26)

Please add the following references:

Burgueño, A. et al., "Influence of rain gauge integration time on the rain rate statistics used in microwave communications," *Annales des télécommunications*, International Union of Radio Science, pp. 522-527 (September/October 1988).

Burgueño, A. et al., "Long-Term Joint Statistical Analysis of Duration and Intensity of Rainfall Rate with Application to Microwave Communications," *Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation*, IEE, pp. 198-201 (March 30 - April 2, 1987).

Burgueño, A. et al., "Long Term Statistics of Precipitation Rate Return Periods in the Context of Microwave Communications," *Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation*, IEE, pp. 297-301 (April 4-7, 1989).

Burgueño, A. et al., "Spectral Analysis of 49 Years of Rainfall Rate and Relation to Fade Dynamics," *IEEE Transactions on Communications*, IEEE Communications Society, Vol. 38, No. 9, pp. 1359-1366 (September 1990).

Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," *Electronics Letters*, IEE, Vol. 34, No. 12, pp. 1238-1240 (June 11, 1998).

Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," *European Solid State Circuits Conference*, IEEE Communication Society, pp. 210-213 (September 22-24, 1993).

Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.

Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.

Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.

Copy of Declaration of Richard C. Looke filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.

Copy of Declaration of Charley D. Moses, Jr. filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.

Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.

Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," *Electronics Division Colloquium on Digitally Implemented Radios*, IEE, pp. 3/1-3/5 (October 18, 1985).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 28 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 27)

Please add the following references:

DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-276351, published November 13, 1990, (1 Page).

DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-131629, published May 21, 1990, (1 Page).

DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-39632, published February 8, 1990, (1 Page).

DIALOG File 348 (European Patents) English Language Patent Abstract for EP 0 785 635 A1, published December 26, 1996, (3 Pages).

DIALOG File 348 (European Patents) English Language Patent Abstract for EP 35166 A1, published February 18, 1981, (2 Pages).

DSO takes sampling rate to 1 Ghz, Electronic Engineering, Morgan Grampian Publishers, Vol. 59, No. 723, pp. 77 and 79 (March 1987).

Erdi, G. and Henneuse, P.R., "A Precision FET-Less Sample-and-Hold with High Charge-to-Droop Current Ratio," IEEE Journal of Solid-State Circuits, IEEE, Vol. SC-13, No. 6, pp. 864-873 (December 1978).

Faulkner, N.D. and Vilar, E., "Subharmonic Sampling for the Measurement of Short Term Stability of Microwave Oscillators," IEEE Transactions on Instrumentation and Measurement, IEEE, Vol. IM-32, No. 1, pp. 208-213 (March 1983).

Faulkner, N.D. et al., "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," CPEM 82 Digest: Conference on Precision Electromagnetic Measurements, IEEE, pp. M-10 and M-11 (1982).

Faulkner, N.D. and Vilar, E., "Time Domain Analysis of Frequency Stability Using Non-Zero Dead-Time Counter Techniques," CPEM 84 Digest Conference on Precision Electromagnetic Measurements, IEEE, pp. 81-82 (1984).

Filip, M. and Vilar, E., "Optimum Utilization of the Channel Capacity of a Satellite Link in the Presence of Amplitude Scintillations and Rain Attenuation," IEEE Transactions on Communications, IEEE Communications Society, Vol. 38, No. 11, pp. 1958-1965 (November 1990).

Fukahori, K., "A CMOS Narrow-Band Signaling Filter with Q Reduction," IEEE Journal of Solid-State Circuits, IEEE, Vol. SC-19, No. 6, pp. 926-932 (December 1984).

Fukuchi, H. and Otsu, Y., "Available time statistics of rain attenuation on earth-space path," IEE Proceedings-H: Microwaves, Antennas and Propagation, IEE, Vol. 135, Pt. H, No. 6, pp. 387-390 (December 1988).

Gibbins, C.J. and Chadha, R., "Millimetre-wave propagation through hydrocarbon flame," IEE Proceedings, IEE, Vol. 134, Pt. H, No.2, pp. 169-173 (April 1987).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 29 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 28)

Please add the following references:

Gilchrist, B. et al., "Sampling hikes performance of frequency synthesizers," *Microwaves & RF*, Hayden Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984).

Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," *Radio Science*, American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981).

Gregorian, R. et al., "Switched-Capacitor Circuit Design," *Proceedings of the IEEE*, IEEE, Vol. 71, No. 8, pp. 941-966 (August 1983).

Groshong et al., "Undersampling Techniques Simplify Digital Radio," *Electronic Design*, Penton Publishing, pp. 67-68, 70, 73-75 and 78 (May 23, 1991).

Grove, W.M., "Sampling for Oscilloscopes and Other RF Systems: Dc through X-Band," *IEEE Transactions on Microwave Theory and Techniques*, IEEE, pp. 629-635 (December 1966).

Haddon, J. et al., "Measurement of Microwave Scintillations on a Satellite Down-Link at X-Band," *Antennas and Propagation*, IEE, pp. 113-117 (1981).

Haddon, J. and Vilar, E., "Scattering Induced Microwave Scintillations from Clear Air and Rain on Earth Space Paths and the Influence of Antenna Aperture," *IEEE Transactions on Antennas and Propagation*, IEEE, Vol. AP-34, No. 5, pp. 646-657 (May 1986).

Hafidallah, H. et al., "2-4 Ghz MESFET Sampler," *Electronics Letters*, IEE, Vol. 24, No. 3, pp. 151-153 (February 4, 1988).

Herben, M.H.A.J., "Amplitude and Phase Scintillation Measurements on 8-2 km Line-Of-Sight Path at 30 Ghz," *Electronics Letters*, IEE, Vol. 18, No. 7, pp. 287-289 (April 1, 1982).

Hewitt, A. et al., "An 18 Ghz Wideband LOS Multipath Experiment," *International Conference on Measurements for Telecommunication Transmission Systems - MTTs 85*, IEE, pp. 112-116 (November 27-28, 1985)

Hewitt, A. et al., "An Autoregressive Approach to the Identification of Multipath Ray Parameters from Field Measurements," *IEEE Transactions on Communications*, IEEE Communications Society, Vol. 37, No. 11, pp. 1136-1143 (November 1989).

Hewitt, A. and Vilar, E., "Selective fading on LOS Microwave Links: Classical and Spread-Spectrum Measurement Techniques," *IEEE Transactions on Communications*, IEEE Communications Society, Vol. 36, No. 7, pp. 789-796 (July 1988).

Hospitalier, E., "Instruments for Recording and Observing Rapidly Varying Phenomena," *Science Abstracts*, IEE, Vol. VII, pp. 22-23 (1904).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 30 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 29)

Please add the following references:

Howard, I.M. and Swansson, N.S., "Demodulating High Frequency Resonance Signals for Bearing Fault Detection," The Institution of Engineers Australia Vibration and Noise Conference, Institution of Engineers, Australia, pp. 115-121 (September 18-20, 1990).

Hu, X., A Switched-Current Sample-and-Hold Amplifier for FM Demodulation, Thesis for Master of Applied Science, Dept. of Electrical and Computer Engineering, University of Toronto, UMI Dissertation Services, pp. 1-64 (1995).

Hung, H.-L. A. et al., "Characterization of Microwave Integrated Circuits Using An Optical Phase-Locking and Sampling System," IEEE MTT-S Digest, IEEE, pp. 507-510 (1991).

Hurst, P.J., "Shifting the Frequency Response of Switched-Capacitor Filters by Nonuniform Sampling," IEEE Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. 38, No. 1, pp. 12-19 (January 1991).

Itakura, T., "Effects of the sampling pulse width on the frequency characteristics of a sample-and-hold circuit," IEE Proceedings Circuits, Devices and Systems, IEE, Vol. 141, No. 4, pp. 328-336 (August 1994).

Janssen, J.M.L., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: I. Fundamentals," Philips Technical Review, Philips Research Laboratories, Vol. 12, No. 2, pp. 52-59 (August 1950).

Janssen, J.M.L. and Michels, A.J., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: II. Electrical Build-Up," Philips Technical Review, Philips Research Laboratories, Vol. 12, No. 3, pp. 73-82 (September 1950).

Jondral, V.F. et al., "Doppler Profiles for Communication Satellites," Frequenz, Herausberger, pp. 111-116 (May-June 1996).

Kaleh, G.K., "A Frequency Diversity Spread Spectrum System for Communication in the Presence of In-band Interference," 1995 IEEE Globecom, IEEE Communications Society, pp. 66-70 (1995).

Karasawa, Y. et al., "A New Prediction Method for Tropospheric Scintillation on Earth-Space Paths," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. 36, No. 11, pp. 1608-1614 (November 1988).

Kirsten, J. and Fleming, J., "Undersampling reduces data-acquisition costs for select applications," EDN, Cahners Publishing, Vol. 35, No. 13, pp. 217-222, 224, 226-228 (June 21, 1990).

Lam, W.K. et al., "Measurement of the Phase Noise Characteristics of an Unlocked Communications Channel Identifier," Proceedings Of the 1993 IEEE International Frequency Control Symposium, IEEE, pp. 283-288 (June 2-4, 1993).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 31 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 30)

Please add the following references:

- Lam, W.K. et al., "Wideband sounding of 11.6 Ghz transhorizon channel," Electronics Letters, IEE, Vol. 30, No. 9, pp. 738-739 (April 28, 1994).
- Larkin, K.G., "Efficient demodulator for bandpass sampled AM signals," Electronics Letters, IEE, Vol. 32, No. 2, pp. 101-102 (January 18, 1996).
- Lau, W.H. et al., "Analysis of the Time Variant Structure of Microwave Line-of-sight Multipath Phenomena," IEEE Global Telecommunications Conference & Exhibition, IEEE, pp. 1707-1711 (November 28 - December 1, 1988).
- Lau, W.H. et al., "Improved Prony Algorithm to Identify Multipath Components," Electronics Letters, IEE, Vol. 23, No. 20, pp. 1059-1060 (September 24, 1987).
- Lesage, P. and Audoin, C., "Effect of Dead-Time on the Estimation of the Two-Sample Variance," IEEE Transactions on Instrumentation and Measurement, IEEE Instrumentation and Measurement Society, Vol. IM-28, No. 1, pp. 6-10 (March 1979).
- Liechti, C.A., "Performance of Dual-gate GaAs MESFET's as Gain-Controlled Low-Noise Amplifiers and High-Speed Modulators," IEEE Transactions on Microwave Theory and Techniques, IEEE Microwave Theory and Techniques Society, Vol. MTT-23, No. 6, pp. 461-469 (June 1975).
- Linnenbrink, T.E. et al., "A One Gigasample Per Second Transient Recorder," IEEE Transactions on Nuclear Science, IEEE Nuclear and Plasma Sciences Society, Vol. NS-26, No. 4, pp. 4443-4449 (August 1979).
- Liou, M.L., "A Tutorial on Computer-Aided Analysis of Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 987-1005 (August 1983).
- Lo, P. et al., "Coherent Automatic Gain Control," IEE Colloquium on Phase Locked Techniques, IEE, pp. 2/1-2/6 (March 26, 1980).
- Lo, P. et al., "Computation of Rain Induced Scintillations on Satellite Down-Links at Microwave Frequencies," Third International Conference on Antennas and Propagation (ICAP 83), pp. 127-131 (April 12-15, 1983).
- Lo, P.S.L.O. et al., "Observations of Amplitude Scintillations on a Low-Elevation Earth-Space Path," Electronics Letters, IEE, Vol. 20, No. 7, pp. 307-308 (March 29, 1984).
- Madani, K. and Aithison, C.S., "A 20 Ghz Microwave Sampler," IEEE Transactions on Microwave Theory and Techniques, IEEE Microwave Theory and Techniques Society, Vol. 40, No. 10, pp. 1960-1963 (October 1992).
- Marsland, R.A. et al., "130 Ghz GaAs monolithic integrated circuit sampling head," Appl. Phys. Lett., American Institute of Physics, Vol. 55, No. 6, pp. 592-594 (August 7, 1989).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 32 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 31)

Please add the following references:

Martin, K. and Sedra, A.S., "Switched-Capacitor Building Blocks for Adaptive Systems," IEEE Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. CAS-28, No. 6, pp. 576-584 (June 1981).

Marzano, F.S. and d'Auria, G., "Model-based Prediction of Amplitude Scintillation variance due to Clear-Air Tropospheric Turbulence on Earth-Satellite Microwave Links," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. 46, No. 10, pp. 1506-1518 (October 1998).

Matricciani, E., "Prediction of fade durations due to rain in satellite communication systems," Radio Science, American Geophysical Union, Vol. 32, No. 3, pp. 935-941 (May-June 1997).

McQueen, J.G., "The Monitoring of High-Speed Waveforms," Electronic Engineering, Morgan Brothers Limited, Vol. XXIV, No. 296, pp. 436-441 (October 1952).

Merkelo, J. and Hall, R.D., "Broad-Band Thin-Film Signal Sampler," IEEE Journal of Solid-State Circuits, IEEE, Vol. SC-7, No. 1, pp. 50-54 (February 1972).

Merlo, U. et al., "Amplitude Scintillation Cycles in a Sirio Satellite-Earth Link," Electronics Letters, IEE, Vol. 21, No. 23, pp. 1094-1096 (November 7, 1985).

Morris, D., "Radio-holographic reflector measurement of the 30-m millimeter radio telescope at 22 Ghz with a cosmic signal source," Astronomy and Astrophysics, Springer-Verlag, Vol. 203, No. 2, pp. 399-406 (September (II) 1988).

Moulsley, T.J. et al., "The efficient acquisition and processing of propagation statistics," Journal of the Institution of Electronic and Radio Engineers, IERE, Vol. 55, No. 3, pp. 97-103 (March 1985).

Ndzi, D. et al., "Wide-Band Statistical Characterization of an Over-the-Sea Experimental Transhorizon Link," IEE Colloquium on Radio Communications at Microwave and Millimetre Wave Frequencies, IEE, pp. 1/1-1/6 (December 16, 1996).

Ndzi, D. et al., "Wideband Statistics of Signal Levels and Doppler Spread on an Over-The-Sea Transhorizon Link," IEE Colloquium on Propagation Characteristics and Related System Techniques for Beyond Line-of-Sight Radio, IEE, pp. 9/1-9/6 (November 24, 1997).

New zero IF chipset from Philips, Electronic Engineering, United News & Media, Vol. 67, No. 825, p. 10 (September 1995).

Ohara, H. et al., "First monolithic PCM filter cuts cost of telecomm systems," Electronic Design, Hayden Publishing Company, Vol. 27, No. 8, pp. 130-135 (April 12, 1979).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 33 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 32)

Please add the following references:

- Oppenheim, A.V. et al., Signals and Systems, Prentice-Hall, pp. 527-531 and 561-562 (1983).
- Ortgies, G., "Experimental Parameters Affecting Amplitude Scintillation Measurements on Satellite Links," Electronics Letters, IEE, Vol. 21, No. 17, pp. 771-772 (August 15, 1985).
- Pärssinen et al., "A 2-GHz Subharmonic Sampler for Signal Downconversion," IEEE Transactions on Microwave Theory and Techniques, IEEE, Vol. 45, No. 12, 7 pages (December 1997).
- Peeters, G. et al., "Evaluation of Statistical Models for Clear-Air Scintillation Prediction Using Olympus Satellite Measurements," International Journal of Satellite Communications, John Wiley and Sons, Vol. 15, No. 2, pp. 73-88 (March-April 1997).
- Perrey, A.G. and Schoenwetter, H.K., NBS Technical Note 1121: A Schottky Diode Bridge Sampling Gate, U.S. Dept. of Commerce, pp. 1-14 (May 1980).
- Poulton, K. et al., "A 1-GHz 6-bit ADC System," IEEE Journal of Solid-State Circuits, IEEE, Vol. SC-22, No. 6, pp. 962-969 (December 1987).
- Press Release, "Parkervision, Inc. Announces Fiscal 1993 Results," Lippert/Heilshorn and Associates, 2 Pages (April 6, 1994).
- Press Release, "Parkervision, Inc. Announces the Appointment of Michael Baker to the New Position of National Sales Manager," Lippert/Heilshorn and Associates, 1 Page (April 7, 1994).
- Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorn and Associates, 2 Pages (April 8, 1994).
- Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994).
- Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994).
- Press Release, "Parkervision, Inc. Announces New Cameraman System II™ At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994).
- Press Release, "Parkervision, Inc. Announces Appointments to its National Sales Force," Lippert/Heilshorn and Associates, 2 Pages (June 17, 1994).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 34 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 33)

Please add the following references:

Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (August 9, 1994).

Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (October 28, 1994).

Press Release, "Parkervision, Inc. Announces First Significant Dealer Sale of Its Cameraman® System II," Lippert/Heilshorn and Associates, 2 Pages (November 7, 1994).

Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Lippert/Heilshorn and Associates, 2 Pages (March 1, 1995).

Press Release, "Parkervision, Inc. Announces Joint Product Developments With VTEL," Lippert/Heilshorn and Associates, 2 Pages (March 21, 1995).

Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 3 Pages (April 28, 1995).

Press Release, "Parkervision Wins Top 100 Product Districts' Choice Award," Parkervision Marketing and Manufacturing Headquarters, 1 Page (June 29, 1995).

Press Release, "Parkervision National Sales Manager Next President of USDLA," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 6, 1995).

Press Release, "Parkervision Granted New Patent," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 21, 1995).

Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 31, 1995).

Press Release, "Parkervision, Inc. Expands Its Cameraman System II Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 22, 1995).

Press Release, "Parkervision Announces New Camera Control Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 25, 1995).

Press Release, "Parkervision, Inc. Announces Completion of VTEL/Parkervision Joint Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995).

Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 35 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 34)

Please add the following references:

Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995).

Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).

Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (February 27, 1996).

Press Release, "ParkerVision, Inc. Expands its Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 7, 1996).

Press Release, "ParkerVision Files Patents for its Research of Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 1 Page (March 28, 1996).

Press Release, "Parkervision, Inc. Announces First Significant Sale of Its Cameraman® Three-Chip System," Parkervision Marketing and Manufacturing Headquarters, 2 pages (April 12, 1996).

Press Release, "Parkervision, Inc. Introduces New Product Line For Studio Production Market," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1996).

Press Release, "Parkervision, Inc. Announces Private Placement of 800,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 1 Page (April 15, 1996).

Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 30, 1996).

Press Release, "ParkerVision's New Studio Product Wins Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (June 5, 1996).

Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (August 1, 1996).

Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 29, 1996).

Press Release, "PictureTel and ParkerVision Sign Reseller Agreement," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1996).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 36 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 35)

Please add the following references:

- Press Release, "CLI and ParkerVision Bring Enhanced Ease-of-Use to Videoconferencing," CLI/Parkervision, 2 Pages (January 20, 1997).
- Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (February 27, 1997).
- Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 29, 1997).
- Press Release, "NEC and Parkervision Make Distance Learning Closer," NEC America, 2 Pages (June 18, 1997).
- Press Release, "Parkervision Supplies JPL with Robotic Cameras, Cameraman Shot Director for Mars Mission," Parkervision Marketing and Manufacturing Headquarters, 2 pages (July 8, 1997).
- Press Release, "ParkerVision and IBM Join Forces to Create Wireless Computer Peripherals," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 23, 1997).
- Press Release, "ParkerVision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 31, 1997).
- Press Release, "Parkervision, Inc. Announces Private Placement of 990,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 8, 1997).
- Press Release, "Wal-Mart Chooses Parkervision for Broadcast Production," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 24, 1997).
- Press Release, "Parkervision, Inc. Announces Third Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1997).
- Press Release, "ParkerVision Announces Breakthrough in Wireless Radio Frequency Technology," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 10, 1997).
- Press Release, "Parkervision, Inc. Announces the Appointment of Joseph F. Skovron to the Position of Vice President, Licensing - Wireless Technologies," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 9, 1998).
- Press Release, "Parkervision Announces Existing Agreement with IBM Terminates-- Company Continues with Strategic Focus Announced in December," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 27, 1998).
- Press Release, "Laboratory Tests Verify Parkervision Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 3, 1998).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 37 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 36)

Please add the following references:

Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998).

Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1998).

Press Release, "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (May 4, 1998).

Press Release, "Parkervision 'DIRECT2DATA' Introduced in Response to Market Demand," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 9, 1998).

Press Release, "Parkervision Expands Senior Management Team," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 29, 1998).

Press Release, "Parkervision Announces Second Quarter and Six Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 4 Pages (July 30, 1998).

Press Release, "Parkervision Announces Third Quarter and Nine Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1998).

Press Release, "Questar Infocomm, Inc. Invests \$5 Million in Parkervision Common Stock," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 2, 1998).

Press Release, "Parkervision Adds Two New Directors," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 5, 1999).

Press Release, "Parkervision Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1999).

Press Release, "Joint Marketing Agreement Offers New Automated Production Solution," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 13, 1999).

Project COST 205: Scintillations in Earth-satellite links, Alta Frequenza: Scientific Review in Electronics, AEI, Vol. LIV, No. 3, pp. 209-211 (May-June, 1985).

Razavi, B., RF Microelectronics, Prentice-Hall, pp. 147-149 (1998).

Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 1)," Electronic Engineering, Morgan Brothers Limited, Vol. 31, No. 373, pp. 130-137 (March 1959).

Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 2)," Electronic Engineering, Morgan Brothers Limited, Vol. 31, No. 374, pp. 204-212 (April 1959).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 38 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 37)

Please add the following references:

- Rein, H.M. and Zahn, M., "Subnanosecond-Pulse Generator with Variable Pulsewidth Using Avalanche Transistors," Electronics Letters, IEE, Vol. 11, No. 1, pp. 21-23 (January 9, 1975).
- Riad, S.M. and Nahman, N.S., "Modeling of the Feed-through Wideband (DC to 12.4 Ghz) Sampling-Head," IEEE MTT-S International Microwave Symposium Digest, IEEE, pp. 267-269 (June 27-29, 1978).
- Rizzoli, V. et al., "Computer-Aided Noise Analysis of MESFET and HEMT Mixers," IEEE Transactions on Microwave Theory and Techniques, IEEE, Vol. 37, No. 9, pp. 1401-1410 (September 1989).
- Rowe, H.E., Signals and Noise in Communication Systems, D. Van Nostrand Company, Inc., Princeton, New Jersey, including, for example, Chapter V, Pulse Modulation Systems (1965).
- Rücker, F. and Dintelmann, F., "Effect of Antenna Size on OTS Signal Scintillations and Their Seasonal Dependence," Electronics Letters, IEE, Vol. 19, No. 24, pp. 1032-1034 (November 24, 1983).
- Russell, R. and Hoare, L., "Millimeter Wave Phase Locked Oscillators," Military Microwaves '78 Conference Proceedings, Microwave Exhibitions and Publishers, pp. 238-242 (October 25-27, 1978).
- Sabel, L.P., "A DSP Implementation of a Robust Flexible Receiver/Demultiplexer for Broadcast Data Satellite Communications," The Institution of Engineers Australia Communications Conference, Institution of Engineers, Australia, pp. 218-223 (October 16-18, 1990).
- Salous, S., "IF digital generation of FMCW waveforms for wideband channel characterization," IEE Proceedings-I, IEE, Vol. 139, No. 3, pp. 281-288 (June 1992).
- Sampling Loops Lock Sources to 23 Ghz, Microwaves & RF, Penton Publishing, p. 212 (September 1990).
- Sasikumar, M. et al., "Active Compensation in the Switched-Capacitor Biquad," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 1008-1009 (August 1983).
- Saul, P.H., "A GaAs MESFET Sample and Hold Switch," Fifth European Solid State Circuits Conference- ESSCIRC 79, IEE, pp. 5-7 (1979).
- Shen, D.H. et al., "A 900-MHZ RF Front-End with Integrated Discrete-Time Filtering," IEEE Journal of Solid-State Circuits, IEEE Solid-State Circuits Council, Vol. 31, No. 12, pp. 1945-1954 (December 1996).
- Shen, X.D. and Vilar, E., "Anomalous transhorizon propagation and meteorological processes of a multilink path," Radio Science, American Geophysical Union, Vol. 30, No. 5, pp. 1467-1479 (September-October 1995).
- Shen, X. and Tawfik, A.N., "Dynamic Behaviour of Radio Channels Due to Trans-Horizon Propagation Mechanisms," Electronics Letters, IEE, Vol. 29, No. 17, pp. 1582-1583 (August 19, 1993).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 39 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 38)

Please add the following references:

- Shen, X. et al., "Modeling Enhanced Spherical Diffraction and Troposcattering on a Transhorizon Path with aid of the parabolic Equation and Ray Tracing Methods," IEE Colloquium on Common modeling techniques for electromagnetic wave and acoustic wave propagation, IEE, pp. 4/1-4/7 (March 8, 1996).
- Shen, X. and Vilar, E., "Path loss statistics and mechanisms of transhorizon propagation over a sea path," Electronics Letters, IEE, Vol. 32, No. 3, pp. 259-261 (February 1, 1996).
- Shen, D. et al., "A 900 MHZ Integrated Discrete-Time Filtering RF Front-End," IEEE International Solid State Circuits Conference, IEEE, Vol. 39, pp. 54-55 and 417 (February 1996).
- Spillard, C. et al., "X-Band Tropospheric Transhorizon Propagation Under Differing Meteorological Conditions," Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. 451-455 (April 4-7, 1989).
- Stafford, K.R. et al., "A Complete Monolithic Sample/Hold Amplifier," IEEE Journal of Solid-State Circuits, IEEE, Vol. SC-9, No. 6, pp. 381-387 (December 1974).
- Staruk, W. Jr. et al., "Pushing HF Data Rates," Defense Electronics, EW Communications, Vol. 17, No. 5, pp. 211, 213, 215, 217, 220 and 222 (May 1985).
- Stephenson, A.G., "Digitizing multiple RF signals requires an optimum sampling rate," Electronics, McGraw-Hill, pp. 106-110 (March 27, 1972).
- Sugarman, R., "Sampling Oscilloscope for Statistically Varying Pulses," The Review of Scientific Instruments, American Institute of Physics, Vol. 28, No. 11, pp. 933-938 (November 1957).
- Sylvain, M., "Experimental probing of multipath microwave channels," Radio Science, American Geophysical Union, Vol. 24, No. 2, pp. 160-178 (March-April 1989).
- Takano, T., "NOVEL GaAs Pet Phase Detector Operable To Ka Band," IEEE MT-S Digest, IEEE, pp. 381-383 (1984).
- Tan, M.A., "Biquadratic Transconductance Switched-Capacitor Filters," IEEE Transactions on Circuits and Systems-I: Fundamental Theory and Applications, IEEE Circuits and Systems Society, Vol. 40, No. 4, pp. 272-275 (April 1993).
- Tanaka, K. et al., "Single Chip Multisystem AM Stereo Decoder IC," IEEE Transactions on Consumer Electronics, IEEE Consumer Electronics Society, Vol. CE-32, No. 3, pp. 482-496 (August 1986).
- Tawfik, A.N., "Amplitude, Duration and Predictability of Long Hop Trans-Horizon X-band Signals Over the Sea," Electronics Letters, IEE, Vol. 28, No. 6, pp. 571-572 (March 12, 1992).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 40 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 39)

Please add the following references:

Tawfik, A.N. and Vilar, E., "Correlation of Transhorizon Signal Level Strength with Localized Surface Meteorological Parameters," Eighth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 335-339 (March 30- April 2, 1993).

Tawfik, A.N. and Vilar, E., "Dynamic Structure of a Transhorizon Signal at X-band Over a Sea Path," Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. 446-450 (April 4-7, 1989).

Tawfik, A.N. and Vilar, E., "Statistics of Duration and Intensity of Path Loss in a Microwave Transhorizon Sea-Path," Electronics Letters, IEE, Vol. 26, No. 7, pp. 474-476 (March 29, 1990).

Tawfik, A.N. and Vilar, E., "X-Band Transhorizon Measurements of CW Transmissions Over the Sea- Part 1: Path Loss, Duration of Events, and Their Modeling," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. 41, No. 11, pp. 1491-1500 (November 1993).

Temes, G.C. and Tsividis, T., "The Special Section on Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 915-916 (August 1983).

Thomas, G.B., Calculus and Analytic Geometry, Third Edition, Addison-Wesley Publishing, pp. 119-133 (1960).

Tomassetti, Q., "An Unusual Microwave Mixer," 16th European Microwave Conference, Microwave Exhibitions and Publishers, pp. 754-759 (September 8-12, 1986).

Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984).

Tsividis, Y. and Antognetti, P. (Ed.), Design of MOS VLSI Circuits for Telecommunications, Prentice-Hall, p. 304 (1985).

Tsividis, Y., "Principles of Operation and Analysis of Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 926-940 (August 1983).

Tsurumi, H. and Maeda, T., "Design Study on a Direct Conversion Receiver Front-End for 280 MHZ, 900 MHZ, and 2.6 Ghz Band Radio Communication Systems," 41st IEEE Vehicular Technology Conference, IEEE Vehicular Technology Society, pp. 457-462 (May 19-22, 1991).

Valdmanis, J.A. et al., "Picosecond and Subpicosecond Optoelectronics for Measurements of Future High Speed Electronic Devices," IEDM Technical Digest, IEEE, pp. 597-600 (December 5-7, 1983).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW

Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 41 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 40)

Please add the following references:

van de Kamp, M.M.J.L., "Asymmetric signal level distribution due to tropospheric scintillation," Electronics Letters, IEE, Vol. 34, No. 11, pp. 1145-1146 (May 28, 1998).

Vasseur, H. and Vanhoenacker, D., "Characterization of tropospheric turbulent layers from radiosonde data," Electronics Letters, IEE, Vol. 34, No. 4, pp. 318-319 (February 19, 1998).

Verdone, R., "Outage Probability Analysis for Short-Range Communication Systems at 60 Ghz in ATT Urban Environments," IEEE Transactions on Vehicular Technology, IEEE Vehicular Technology Society, Vol. 46, No. 4, pp. 1027-1039 (November 1997).

Vierira-Ribeiro, S.A., Single-IF DECT Receiver Architecture using a Quadrature Sub-Sampling Band-Pass Sigma-Delta Modulator, Thesis for Degree of Master's of Engineering, Carleton University, UMI Dissertation Services, pp. 1-180 (April 1995).

Vilar, E. et al., "A Comprehensive/Selective MM-Wave Satellite Downlink Experiment on Fade Dynamics," Tenth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 2.98-2.101 (April 14-17, 1997).

Vilar, E. et al., "A System to Measure LOS Atmospheric Transmittance at 19 Ghz," AGARD Conference Proceedings No. 346: Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation, AGARD, pp. 8-1 - 8-16 (October 4-7, 1983).

Vilar, E. and Smith, H., "A Theoretical and Experimental Study of Angular Scintillations in Earth Space Paths," IEEE Transactions on Antennas and Propagation, IEEE, Vol. AP-34, No. 1, pp. 2-10 (January 1986).

Vilar, E. et al., "A Wide Band Transhorizon Experiment at 11.6 Ghz," Eighth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 441-445 (March 30- April 2, 1993).

Vilar, E. and Matthews, P.A., "Amplitude Dependence of Frequency in Oscillators," Electronics Letters, IEE, Vol. 8, No. 20, pp. 509-511 (October 5, 1972).

Vilar, E. et al., "An experimental mm-wave receiver system for measuring phase noise due to atmospheric turbulence," Proceedings of the 25th European Microwave Conference, Nexus House, pp. 114-119 (1995).

Vilar, E. and Burgueño, A., "Analysis and Modeling of Time Intervals Between Rain Rate Exceedances in the Context of Fade Dynamics," IEEE Transactions on Communications, IEEE Communications Society, Vol. 39, No. 9, pp. 1306-1312 (September 1991).

Vilar, E. et al., "Angle of Arrival Fluctuations in High and Low Elevation Earth Space Paths," Fourth International Conference on Antennas and Propagation (ICAP 85), Electronics Division of the IEE, pp. 83-88 (April 16-19, 1985).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 42 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 41)

Please add the following references:

Vilar, E., "Antennas and Propagation: A Telecommunications Systems Subject," Electronics Division Colloquium on Teaching Antennas and Propagation to Undergraduates, IEE, pp. 7/1-7/6 (March 8, 1988).

Vilar, E. et al., "CERS*. Millimetre-Wave Beacon Package and Related Payload Doppler Correction Strategies," Electronics Division Colloquium on CERS- Communications Engineering Research Satellite, IEE, pp. 10/1-10/10 (April 10, 1984).

Vilar, E. and Mousley, T.J., "Comment and Reply: Probability Density Function of Amplitude Scintillations," Electronics Letters, IEE, Vol. 21, No. 14, pp. 620-622 (July 4, 1985).

Vilar, E. et al., "Comparison of Rainfall Rate Duration Distributions for ILE-IFE and Barcelona," Electronics Letters, IEE, Vol. 28, No. 20, pp. 1922-1924 (September 24, 1992).

Vilar, E., "Depolarization and Field Transmittances in Indoor Communications," Electronics Letters, IEE, Vol. 27, No. 9, pp. 732-733 (April 25, 1991).

Vilar, E. and Larsen, J.R., "Elevation Dependence of Amplitude Scintillations on Low Elevation Earth Space Paths," Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. 150-154 (April 4-7, 1989).

Vilar, E. et al., "Experimental System and Measurements of Transhorizon Signal Levels at 11 Ghz," 18th European Microwave Conference, Microwave Exhibitions and Publishers Ltd., pp. 429-435 (September 12 - 15, 1988).

Vilar, E. and Matthews, P.A., "Importance of Amplitude Scintillations in Millimetric Radio Links," Proceedings of the 4th European Microwave Conference, Microwave Exhibitions and Publishers, pp. 202-206 (September 10-13, 1974).

Vilar, E. and Haddon, J., "Measurement and Modeling of Scintillation Intensity to Estimate Turbulence Parameters in an Earth-Space Path," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. AP-32, No. 4, pp. 340-346 (April 1984).

Vilar, E. and Matthews, P.A., "Measurement of Phase Fluctuations on Millimetric Radiowave Propagation," Electronics Letters, IEE, Vol. 7, No. 18, pp. 566-568 (September 9, 1971).

Vilar, E. and Wan, K.W., "Narrow and Wide Band Estimates of Field Strength for Indoor Communications in the Millimetre Band," Electronics Division Colloquium on Radiocommunications in the Range 30-60 Ghz, IEE, pp. 5/1-5/8 (January 17, 1991).

Vilar, E. and Faulkner, N.D., "Phase Noise and Frequency Stability Measurements. Numerical Techniques and Limitations," Electronics Division Colloquium on Low Noise Oscillators and Synthesizer, IEE, 5 pages (January 23, 1986).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 43 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 42)

Please add the following references:

Vilar, E. and Senin, S., "Propagation phase noise identified using 40 Ghz satellite downlink," Electronics Letters, IEE, Vol. 33, No. 22, pp. 1901-1902 (October 23, 1997).

Vilar, E. et al., "Scattering and Extinction: Dependence Upon Raindrop Size Distribution in Temperate (Barcelona) and Tropical (Belem) Regions," Tenth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 2.230-2.233 (April 14-17, 1997).

Vilar, E. and Haddon, J., "Scintillation Modeling and Measurement - A Tool for Remote-Sensing Slant Paths," AGARD Conference Proceedings No. 332: Propagation Aspects of Frequency Sharing, Interference And System Diversity, AGARD, pp. 27-1 - 27-13 (October 18-22, 1982).

Vilar, E., "Some Limitations on Digital Transmission Through Turbulent Atmosphere," International Conference on Satellite Communication Systems Technology, Electronics Division of the IEE, pp. 169-187 (April 7-10, 1975).

Vilar, E. and Matthews, P.A., "Summary of Scintillation Observations in a 36 Ghz Link Across London," International Conference on Antennas and Propagation Part 2: Propagation, IEE, pp. 36-40 (November 28-30, 1978).

Vilar, E. et al., "Wideband Characterization of Scattering Channels," Tenth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 2.353-2.358 (April 14-17, 1997).

Vollmer, A., "Complete GPS Receiver Fits on Two Chips," Electronic Design, Penton Publishing, pp. 50, 52, 54 and 56 (July 6, 1998).

Voltage and Time Resolution in Digitizing Oscilloscopes: Application Note 348, Hewlett Packard, pp. 1-11 (November 1986).

Wan, K.W. et al., "A Novel Approach to the Simultaneous Measurement of Phase and Amplitude Noises in Oscillator," Proceedings of the 19th European Microwave Conference, Microwave Exhibitions and Publishers Ltd., pp. 809-813 (September 4-7, 1989).

Wan, K.W. et al., "Extended Variances and Autoregressive/Moving Average Algorithm for the Measurement and Synthesis of Oscillator Phase Noise," Proceedings Of the 43rd Annual Symposium on Frequency Control, IEEE, pp. 331-335 (1989).

Wan, K.W. et al., "Wideband Transhorizon Channel Sounder at 11 Ghz," Electronics Division Colloquium on High Bit Rate UHF/SHF Channel Sounders - Technology and Measurement, IEE, pp. 3/1-3/5 (December 3, 1993).

Wang, H., "A 1-V Multigigahertz RF Mixer Core in 0.5 - μ m CMOS," IEEE Journal of Solid-State Circuits, IEEE Solid-State Circuits Society, Vol. 33, No. 12, pp. 2265-2267 (December 1998).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 44 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 43)

Please add the following references:

Watson, A.W.D. et al., "Digital Conversion and Signal Processing for High Performance Communications Receivers," *Digital Processing of Signals in Communications*, Institution of Electronic and Radio Engineers, pp. 367-373 (April 22nd -26th, 1985).

Weast, R.C. et al. (Ed.), *Handbook of Mathematical Tables*, Second Edition, The Chemical Rubber Co., pp. 480-485 (1964).

Wiley, R.G., "Approximate FM Demodulation Using Zero Crossings," *IEEE Transactions on Communications*, IEEE, Vol. COM-29, No. 7, pp. 1061-1065 (July 1981).

Worthman, W., "Convergence... Again," *RF Design*, Primedia, p. 102 (March 1999).

Young, I.A. and Hodges, D.A., "MOS Switched-Capacitor Analog Sampled-Data Direct-Form Recursive Filters," *IEEE Journal of Solid-State Circuits*, IEEE, Vol. SC-14, No. 6, pp. 1020-1033 (December 1979).

Translation of Specification and Claims of FR Patent No. 2245130, 3 pages.

Fest, Jean-Pierre, "Le Convertisseur A/N Revolutionne Le Recepteur Radio," *Electronique*, JMJ (Publisher), No. 54, pp. 40-42 (December 1995).

Translation of DE Patent No. 35 41 031 A1, 22 pages.

Translation of EP Patent No. 0 732 803 A1, 9 pages.

Fest, Jean-Pierre, "The A/D Converter Revolutionizes the Radio Receiver," *Electronique*, JMJ (Publisher), No. 54, 3 pages (December 1995). (Translation of Doc. AQ50).

Translation of German Patent No. DE 197 35 798 C1, 8 pages.

Miki, S. and Nagahama, R., *Modulation System II*, Common Edition 7, Kyoritsu Publishing Co., Ltd., pp. 146-154 (April 30, 1956).

Miki, S. and Nagahama, R., *Modulation System II*, Common Edition 7, Kyoritsu Publishing Co., Ltd., pp. 146-149 (April 30, 1956). (Partial Translation of Doc. AQ51).

Rabiner, L.R. and Gold, B., *Theory And Application Of Digital Signal Processing*, Prentice-Hall, Inc., pp. xiii-xii and 40-46 (1975).

English-language Abstract of JP 08-032556, published February 2, 1996, from <http://www1.ipdl.jpo.go.jp>, 2 Pages (last visited December 14, 2001).

English-language Abstract of JP 08-139524, published May 31, 1996, from <http://www1.ipdl.jpo.go.jp>, 2 Pages (last visited December 14, 2001).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934
Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 45 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells *et al.*

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], OTHER PUBLICATIONS Section (Continued from page 44)

Please add the following references:

English-language Abstract of JP 63-054002, published March 8, 1988, from <http://www1.ipdl.jpo.go.jp>, 2 Pages (last visited January 2, 2002).

English-language Abstract of JP 06-237276, published August 23, 1994, from <http://www1.ipdl.jpo.go.jp>, 2 Pages (last visited January 2, 2002).

English-language Abstract of JP 08-023359, published January 23, 1996, from <http://www1.ipdl.jpo.go.jp>, 2 Pages (last visited January 2, 2002).

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW
Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

This collection of information is required by 37 CFR 1.322, 1.323 and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you are required to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NM	AA1	2,057,613	10/1936	Gardner	250	8	
NM	AB1	2,241,078	05/1941	Vreeland	179	15	
NM	AC1	2,270,385	01/1942	Skillman	179	15	
NM	AD1	2,283,575	05/1942	Roberts	250	6	
NM	AE1	2,358,152	09/1944	Earp	179	171.5	
NM	AF1	2,410,350	10/1946	Labin et al.	179	15	
NM	AG1	2,451,430	10/1948	Barone	250	8	
NM	AH1	2,462,069	02/1949	Chatterjee et al.	250	17	
NM	AI1	2,462,181	02/1949	Grosselfinger	250	17	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
NM	AJ1	DE 42 37 692 C1	03/1994	DE	H04B	1/26	No
NM	AK1	EP 0 035 166 A1	09/1981	EP	H04B	1/26	No
NM	AL1	EP 0 193 899 B1	06/1990	EP	G01S	7/52	N/A
NM	AM1	EP 0 380 351 A2	08/1990	EP	H03H	17/04	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	1	Aghvami, H. et al., "Land Mobile Satellites Using the Highly Elliptic Orbits- The UK T-SAT Mobile Payload," <i>Fourth International Conference on Satellite Systems for Mobile Communications and Navigation</i> , IEE, pp. 147-153 (October 17-19, 1988).
NM	AO	1	Akers, N.P. et al., "RF Sampling Gates: a Brief Review," <i>IEE Proceedings</i> , IEE, Vol. 133, Part A, No. 1, pp. 45-49 (January 1986).
NM	AP	1	Al-Ahmad, H.A.M. et al., "Doppler Frequency Correction for a Non-Geostationary Communications Satellite. Techniques for CERS and T-SAT," <i>Electronics Division Colloquium on Low Noise Oscillators and Synthesizers</i> , IEE, pp. 4/1-4/5 (January 23, 1986).
NM	AQ	1	Ali, I. et al., "Doppler Characterization for LEO Satellites," <i>IEEE Transactions on Communications</i> , IEEE, Vol. 46, No. 3, pp. 309-313 (March 1998).
NM	AR	1	Allan, D.W., "Statistics of Atomic Frequency Standards," <i>Proceedings Of The IEEE Special Issue on Frequency Stability</i> , IEEE, pp. 221-230 (February 1966).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

N 11 2002

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA2	2,472,798	06/1949	Fredendall	178	44	
NM	AB2	2,497,859	02/1950	Boughtwood et al.	250	8	
NM	AC2	2,499,279	02/1950	Peterson	332	41	
NM	AD2	2,802,208	08/1957	Hobbs	343	176	
NM	AE2	2,985,875	05/1961	Grisdale et al.	343	100	
NM	AF2	3,023,309	02/1962	Foulkes	250	17	
NM	AG2	3,069,679	12/1962	Sweeney et al.	343	200	
NM	AH2	3,104,393	09/1963	Vogelman	343	200	
NM	AI2	3,114,106	12/1963	McManus	325	56	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ2	EP 0 380 351 A3	02/1991	EP	H03H	17/04	N/A
NM	AK2	EP 0 411 840 A2	02/1991	EP	G01R	33/36	N/A
NM	AL2	EP 0 411 840 A3	07/1991	EP	G01R	33/36	N/A
NM	AM2	EP 0 411 840 B1	10/1995	EP	G01R	33/36	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	2	Allstot, D.J. et al., "MOS Switched Capacitor Ladder Filters," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-13, No. 6, pp. 806-814 (December 1978).
NM	AO	2	Allstot, D.J. and Black Jr. W.C., "Technological Design Considerations for Monolithic MOS Switched-Capacitor Filtering Systems," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 967-986 (August 1983).
NM	AP	2	Alouini, M. et al., "Channel Characterization and Modeling for Ka-Band Very Small Aperture Terminals," <i>Proceedings Of the IEEE</i> , IEEE, Vol. 85, No. 6, pp. 981-997 (June 1997).
NM	AQ	2	Andreyev, G.A. and Ogarev, S.A., "Phase Distortions of Keyed Millimeter-Wave Signals in the Case of Propagation in a Turbulent Atmosphere," <i>Telecommunications and Radio Engineering</i> , Scripta Technica, Vol. 43, No. 12, pp. 87-90 (December 1988).
NM	AR	2	Antonetti, A. et al., "Optoelectronic Sampling in the Picosecond Range," <i>Optics Communications</i> , North-Holland Publishing Company, Vol. 21, No. 2, pp. 211-214 (May 1977).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-144

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA3	3,118,117	01/1964	King et al.	332	22	
NM	AB3	3,226,643	12/1965	McNair	325	40	
NM	AC3	3,258,694	06/1966	Shepherd	325	145	
NM	AD3	3,383,598	05/1968	Sanders	325	163	
NM	AE3	3,384,822	05/1968	Miyagi	325	30	
NM	AF3	3,454,718	07/1969	Perreault	178	66	
NM	AG3	3,523,291	08/1970	Pierret	340	347	
NM	AH3	3,548,342	12/1970	Maxey	332	9	
NM	AI3	3,555,428	01/1971	Perreault	325	320	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ3	EP 0 423 718 A2	04/1991	EP	H04N	7/01	N/A
NM	AK3	EP 0 423 718 A3	08/1992	EP	H04N	7/01	N/A
NM	AL3	EP 0 486 095 A1	05/1992	EP	H03D	3/00	N/A
NM	AM3	EP 0 486 095 B1	02/1997	EP	H03D	3/00	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	3	Austin, J. et al., "Doppler Correction of the Telecommunication Payload Oscillators in the UK T-SAT," 18 th European Microwave Conference, Microwave Exhibitions and Publishers Ltd., pp. 851-857 (September 12 - 15, 1988).
NM	AO	3	Auston, D.H., "Picosecond optoelectronic switching and gating in silicon," <i>Applied Physics Letters</i> , American Institute of Physics, Vol. 26, No. 3, pp. 101-103 (February 1, 1975).
NM	AP	3	Baher, H., "Transfer Functions for Switched-Capacitor and Wave Digital Filters," <i>IEEE Transactions on Circuits and Systems</i> , IEEE Circuits and Systems Society, Vol. CAS-33, No. 11, pp. 1138-1142 (November 1986).
NM	AQ	3	Baines, R., "The DSP Bottleneck," <i>IEEE Communications Magazine</i> , IEEE Communications Society, pp. 46-54 (May 1995).
NM	AR	3	Banjo, O.P. and Vilar, E., "Binary Error Probabilities on Earth-Space Links Subject to Scintillation Fading," <i>Electronics Letters</i> , IEE, Vol. 21, No. 7, pp. 296-297 (March 28, 1985).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

JAN 11 2002

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA4	3,617,892	11/1971	Hawley et al.	325	145	
NM	AB4	3,621,402	11/1971	Gardner	328	37	
NM	AC4	3,623,160	11/1971	Giles et al.	340	347 DA	
NM	AD4	3,626,417	12/1971	Gilbert	343	203	
NM	AE4	3,629,696	12/1971	Bartelink	324	57 R	
NM	AF4	3,662,268	05/1972	Gans et al.	325	56	
NM	AG4	3,689,841	09/1972	Bello et al.	325	39	
NM	AH4	3,714,577	01/1973	Hayes	325	145	
NM	AI4	3,717,844	02/1973	Barret et al.	340	5 R	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ4	EP 0 512 748 A2	11/1992	EP	H04N	9/64	N/A
NM	AK4	EP 0 512 748 A3	07/1993	EP	H04N	9/64	N/A
NM	AL4	EP 0 512 748 B1	11/1998	EP	H04N	9/64	N/A
NM	AM4	EP 0 548 542 A1	06/1993	EP	H03B	19/14	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	4	Banjo, O.P. and Vilar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological Parameters," <i>Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation</i> , IEE, pp. 277-280 (March 30 - April 2, 1987).
NM	AO	4	Banjo, O.P. and Vilar, E. "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-Space Paths and Impact on Communication Systems," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. COM-34, No. 8, pp. 774-780 (August 1986).
NM	AP	4	Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," <i>Fourth International Conference on Antennas and Propagation (ICAP 85)</i> , IEE, pp. 77-82 (April 16-19, 1985).
NM	AQ	4	Basili, P. et al., "Case Study of Intense Scintillation Events on the OTS Path," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990).
NM	AR	4	Basili, P. et al., "Observation of High C ² and Turbulent Path Length on OTS Space-Earth Link," <i>Electronics Letters</i> , IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).

EXAMINER

W. Mehrpouyan

DATE CONSIDERED

7/2/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
N.M.	AA5	3,735,048	05/1973	Tomsa et al.	179	15 BM	
N.M.	AB5	3,806,811	04/1974	Thompson	325	146	
N.M.	AC5	3,868,601	02/1975	MacAfee	332	45	
N.M.	AD5	3,949,300	04/1976	Sadler	325	31	
N.M.	AE5	3,967,202	06/1976	Batz	325	31	
N.M.	AF5	3,980,945	09/1976	Bickford	325	30	
N.M.	AG5	3,987,280	10/1976	Bauer	235	150.53	
N.M.	AH5	3,991,277	11/1976	Hirata	179	15 FD	
N.M.	AI5	4,003,002	01/1977	Snijders et al.	332	10	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
N.M.	AJ5	EP 0 632 288 A2	01/1995	EP	G01S	13/75	N/A
N.M.	AK5	EP 0 632 288 A3	07/1996	EP	G01S	13/75	N/A
N.M.	AL5	EP 0 696 854 A1	02/1996	EP	H04B	1/26	N/A
N.M.	AM5	EP 0 782 275 A2	07/1997	EP	H04B	7/02	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

N.M.	AN	5	Blakey, J.R. et al., "Measurement of Atmospheric Millimetre-Wave Phase Scintillations in an Absorption Region," <i>Electronics Letters</i> , IEE, Vol. 21, No. 11, pp. 486-487 (May 23, 1985).
N.M.	AO	5	Burgueño, A. et al., "Influence of rain gauge integration time on the rain rate statistics used in microwave communications," <i>Annales des télécommunications</i> , International Union of Radio Science, pp. 522-527 (September/October 1988).
N.M.	AP	5	Burgueño, A. et al., "Long-Term Joint Statistical Analysis of Duration and Intensity of Rainfall Rate with Application to Microwave Communications," <i>Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation</i> , IEE, pp. 198-201 (March 30 - April 2, 1987).
N.M.	AQ	5	Burgueño, A. et al., "Long Term Statistics of Precipitation Rate Return Periods in the Context of Microwave Communications," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 297-301 (April 4-7, 1989).
N.M.	AR	5	Burgueño, A. et al., "Spectral Analysis of 49 Years of Rainfall Rate and Relation to Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 9, pp. 1359-1366 (September 1990).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

JAN 11 2002

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA6	4,013,966	03/1977	Campbell	325	363	
NM	AB6	4,019,140	04/1977	Swordlow	322	65	
NM	AC6	4,035,732	07/1977	Lohrmann	325	446	
NM	AD6	4,047,121	09/1977	Campbell	331	76	
NM	AE6	4,066,841	01/1978	Young	178	66 R	
NM	AF6	4,066,919	01/1978	Huntington	307	353	
NM	AG6	4,081,748	03/1978	Batz	325	56	
NM	AH6	4,130,765	12/1978	Arakelian et al.	307	220 R	
	AI6	4,130,806	12/1978	Van Gerwen et al.	325	487	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ6	EP 0 785 635 A1	07/1997	EP	H04B	1/713	No
NM	AK6	EP 0 795 978 A2	09/1997	EP	H04L	5/06	N/A
NM	AL6	EP 0 837 565 A1	04/1998	EP	H04B	1/69	N/A
NM	AM6	EP 0 862 274 A1	09/1998	EP	H03M	1/06	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	6	Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," <i>Electronics Letters</i> , IEE, Vol. 34, No. 12, pp. 1238-1240 (June 11, 1998).
AO	6	Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," <i>European Solid State Circuits Conference</i> , IEEE Communication Society, pp. 210-213 (September 22-24, 1993).
AP	6	Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
AQ	6	Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
AR	6	Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA7	4,142,155	02/1979	Adachi	325	47	
NM	AB7	4,170,764	10/1979	Salz et al.	332	17	
NM	AC7	4,204,171	05/1980	Sutphin, Jr.	328	167	
NM	AD7	4,210,872	07/1980	Gregorian	330	9	
NM	AE7	4,245,355	01/1981	Pascoe et al.	455	326	
NM	AF7	4,253,066	02/1981	Fisher et al.	329	50	
NM	AG7	4,253,069	02/1981	Nossek	330	107	
NM	AH7	4,308,614	12/1981	Fisher et al.	370	119	
NM	AI7	4,320,361	03/1982	Kikkert	332	16 R	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ7	EP 0 874 499 A2	10/1998	EP	H04L	25/06	N/A
NM	AK7	FR 2 743 231 A1	07/1997	FR	H04B	7/12	No
NM	AL7	GB 2 161 344 A	01/1986	GB	H04B	7/12	N/A
NM	AM7	GB 2 215 945 A	09/1989	GB	H04L	27/00	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	Z	Copy of Declaration of Richard C. Looke filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
AO	Z	Copy of Declaration of Charley D. Moses, Jr. filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
AP	Z	Copy of Declaration of Jeffrey L. Parker and David F. Sorrells, with attachment Exhibit 1, filed in patent application Ser. No. 09/176,022, which is directed to related subject matter.
AQ	Z	Dewey, R.J. and Collier, C.J., "Multi-Mode Radio Receiver," <i>Electronics Division Colloquium on Digitally Implemented Radios</i> , IEE, pp. 3/1-3/5 (October 18, 1985).
AR	Z	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-276351, published November 13, 1990, (1 Page).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NM	AA8	4,320,536	03/1982	Dietrich	455	325	
NM	AB8	4,346,477	08/1982	Gordy	455	257	
NM	AC8	4,355,401	10/1982	Ikoma et al.	375	5	
NM	AD8	4,356,558	10/1982	Owen et al.	364	724	
NM	AE8	4,360,867	11/1982	Gonda	363	158	
NM	AF8	4,363,132	12/1982	Collin	455	52	
NM	AG8	4,365,217	12/1982	Berger et al.	333	165	
NM	AH8	4,370,572	01/1983	Cosand et al.	307	353	
NM	AI8	4,389,579	06/1983	Stein	307	353	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
NM	AJ8	JP 2-39632	02/1990	JP	H04B	7/12	No
NM	AK8	JP 2-131629	05/1990	JP	H04B	7/12	No
NM	AL8	JP 2-276351	11/1990	JP	H04L	27/22	No
NM	AM8	WO 80/01633 A1	08/1980	PCT	H04J	1/08	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-131629, published May 21, 1990, (1 Page).
	AO	8	DIALOG File 347 (JAPIO) English Language Patent Abstract for JP 2-39632, published February 8, 1990, (1 Page).
	AP	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 0 785 635 A1, published December 26, 1996, (3 Pages).
	AQ	8	DIALOG File 348 (European Patents) English Language Patent Abstract for EP 35166 A1, published February 18, 1981, (2 Pages).
	AR	8	"DSO takes sampling rate to 1 Ghz," <i>Electronic Engineering</i> , Morgan Grampian Publishers, Vol. 59, No. 723, pp. 77 and 79 (March 1987).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA9	4,392,255	07/1983	Del Giudice	455	328	
NM	AB9	4,430,629	02/1984	Betzl et al.	333	165	
NM	AC9	4,446,438	05/1984	Chang et al.	328	127	
NM	AD9	4,456,990	06/1984	Fisher et al.	370	119	
NM	AE9	4,472,785	09/1984	Kasuga	364	718	
NM	AF9	4,479,226	10/1984	Prabhu et al.	375	1	
NM	AG9	4,481,490	11/1984	Huntley	332	41	
NM	AH9	4,481,642	11/1984	Hanson	375	9	
NM	AI9	4,485,488	11/1984	Houdart	455	327	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ9	WO 94/05087 A1	03/1994	PCT	H03M	1/00	N/A
NM	AK9	WO 96/02977 A1	02/1996	PCT	H04B	1/26	N/A
NM	AL9	WO 96/08078 A1	03/1996	PCT	H03D	3/00	N/A
NM	AM9	WO 96/39750 A1	12/1996	PCT	H04B	1/26	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	2	Erdi, G. and Henneuse, P.R., "A Precision FET-Less Sample-and-Hold with High Charge-to-Droop Current Ratio," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-13, No. 6, pp. 864-873 (December 1978).
AO	2	Faulkner, N.D. and Vilar, E., "Subharmonic Sampling for the Measurement of Short Term Stability of Microwave Oscillators," <i>IEEE Transactions on Instrumentation and Measurement</i> , IEEE, Vol. IM-32, No. 1, pp. 208-213 (March 1983).
AP	2	Faulkner, N.D. et al., "Sub-Harmonic Sampling for the Accurate Measurement of Frequency Stability of Microwave Oscillators," <i>CPEM 82 Digest: Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. M-10 and M-11 (1982).
AQ	2	Faulkner, N.D. and Vilar, E., "Time Domain Analysis of Frequency Stability Using Non-Zero Dead-Time Counter Techniques," <i>CPEM 84 Digest Conference on Precision Electromagnetic Measurements</i> , IEEE, pp. 81-82 (1984).
AR	2	Filip, M. and Vilar, E., "Optimum Utilization of the Channel Capacity of a Satellite Link in the Presence of Amplitude Scintillations and Rain Attenuation," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 38, No. 11, pp. 1958-1965 (November 1990).

EXAMINER: N. Mehrypour

DATE CONSIDERED

7/26/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA10	4,504,803	03/1985	Lee et al.	332	31 R	
NM	AB10	4,517,519	05/1985	Mukaiyama	329	126	
NM	AC10	4,517,520	05/1985	Ogawa	329	145	
NM	AD10	4,518,935	05/1985	van Roermund	333	173	
NM	AE10	4,521,892	06/1985	Vance et al.	375	88	
NM	AF10	4,563,773	07/1986	Dixon, Jr. et al.	455	327	
NM	AG10	4,577,157	03/1986	Reed	329	50	
NM	AH10	4,583,239	04/1986	Vance	375	94	
NM	AI10	4,591,736	05/1986	Hirao et al.	307	267	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
Nm	AJ10	WO 97/38490 A1	10/1997	PCT	H03K	7/00	N/A
Nm	AK10	WO 98/00953 A1	01/1998	PCT	H04L	27/26	N/A
Nm	AL10	WO 98/24201 A1	06/1998	PCT	H04H	1/00	N/A
Nm	AM10	EP 0 099 265 A1	01/1984	EP	H03D	3/04	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	10	Fukahori, K., "A CMOS Narrow-Band Signaling Filter with Q Reduction," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-19, No. 6, pp. 926-932 (December 1984).
	AO	10	Fukuchi, H. and Otsu, Y., "Available time statistics of rain attenuation on earth-space path," <i>IEE Proceedings-H: Microwaves, Antennas and Propagation</i> , IEE, Vol. 135, Pt. H, No. 6, pp. 387-390 (December 1988).
	AP	10	Gibbins, C.J. and Chadha, R., "Millimetre-wave propagation through hydrocarbon flame," <i>IEE Proceedings</i> , IEE, Vol. 134, Pt. H, No. 2, pp. 169-173 (April 1987).
	AQ	10	Gilchrist, B. et al., "Sampling hikes performance of frequency synthesizers," <i>Microwaves & RF</i> , Hayden Publishing, Vol. 23, No. 1, pp. 93-94 and 110 (January 1984).
	AR	10	Gossard, E.E., "Clear weather meteorological effects on propagation at frequencies above 1 Ghz," <i>Radio Science</i> , American Geophysical Union, Vol. 16, No. 5, pp. 589-608 (September - October 1981).

EXAMINER

N Mehrpour

DATE CONSIDERED

7/25/02

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA11	4,602,220	07/1986	Kurihara	331	19	
NM	AB11	4,603,300	07/1986	Welles, II et al.	329	50	
NM	AC11	4,612,464	09/1986	Ishikawa et al.	307	496	
NM	AD11	4,612,518	09/1986	Gans et al.	332	21	
NM	AE11	4,616,191	10/1986	Galani et al.	331	4	
NM	AF11	4,621,217	11/1986	Saxe et al.	315	1	
NM	AG11	4,628,517	12/1986	Schwarz et al.	375	40	
NM	AH11	4,634,998	01/1987	Crawford	331	1 A	
NM	AI11	4,648,021	03/1987	Alberkrack	363	157	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ11	EP 0 560 228 A1	09/1993	EP	H03D	7/12	N/A
NM	AK11	FR 2 245 130	04/1975	FR	H03K	5/13	Yes (See AP50)
NM	AL11	DE 35 41 031 A1	05/1986	DE	H03D	3/00	Yes (See AR50)
NM	AM11	EP 0 732 803 A1	09/1996	EP	H03D	3/00	Yes (See AN51)

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	11	Gregorian, R. et al., "Switched-Capacitor Circuit Design," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 941-966 (August 1983).
AO	11	Grasheng et al., "Undersampling Techniques Simplify Digital Radio," <i>Electronic Design</i> , Penton Publishing, pp. 67-68, 70, 73-75 and 78 (May 23, 1991).
AP	11	Grove, W.M., "Sampling for Oscilloscopes and Other RF Systems: Dc through X-Band," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, pp. 629-635 (December 1966).
AQ	11	Haddon, J. et al., "Measurement of Microwave Scintillations on a Satellite Down-Link at X-Band," <i>Antennas and Propagation</i> , IEE, pp. 113-117 (1981).
AR	11	Haddon, J. and Yilar, E., "Scattering Induced Microwave Scintillations from Clear Air and Rain on Earth Space Paths and the Influence of Antenna Aperture," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE, Vol. AP-34, No. 5, pp. 646-657 (May 1986).

EXAMINER

N Mehri

DATE CONSIDERED

7/26/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
UM	AA12	4,651,034	03/1987	Sato	307	556	
NM	AB12	4,675,882	06/1987	Lillie et al.	375	80	
NM	AC12	4,688,253	08/1987	Gumm	381	7	
NM	AD12	4,716,376	12/1987	Daudelin	329	107	
NM	AE12	4,716,388	12/1987	Jacobs	333	173	
NM	AF12	4,718,113	01/1988	Rother et al.	455	209	
NM	AG12	4,726,041	02/1988	Prohaska et al.	375	91	
NM	AH12	4,733,403	03/1988	Simone	375	103	
NM	AI12	4,734,591	03/1988	Ichitsubo	307	219.1	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
AM	AJ12	DE 197 35 798 C1	07/1998	DE	H04L	27/00	Yes (See AP51)
AM	AK12	WO 98/40968 A2&A3	09/1998	PCT	H03L	7/08	N/A
NM	AL12	EP 0 529 836 A1	03/1993	EP	H03L	7/089	N/A
NM	AM12	EP 0 795 955 A2&A3	09/1997	EP	H03D	13/00	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	12	Hafdallah, H. et al., "2-4 Ghz MESFET Sampler," <i>Electronics Letters</i> , IEE, Vol. 24, No. 3, pp. 151-153 (February 4, 1988).
AO	12	Herben, M.H.A.J., "Amplitude and Phase Scintillation Measurements on 8-2 km Line-Of-Sight Path at 30 Ghz," <i>Electronics Letters</i> , IEE, Vol. 18, No. 7, pp. 287-289 (April 1, 1982).
AP	12	Hewitt, A. et al., "An 18 Ghz Wideband LOS Multipath Experiment," <i>International Conference on Measurements for Telecommunication Transmission Systems - MTTs 85</i> , IEE, pp. 112-116 (November 27-28, 1985).
AQ	12	Hewitt, A. et al., "An Autoregressive Approach to the Identification of Multipath Ray Parameters from Field Measurements," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 37, No. 11, pp. 1136-1143 (November 1989).
AR	12	Hewitt, A. and Vilar, E., "Selective fading on LOS Microwave Links: Classical and Spread-Spectrum Measurement Techniques," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 36, No. 7, pp. 789-796 (July 1988).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
AM	AA13	4,737,969	04/1988	Steel et al.	375	67	
AM	AB13	4,743,858	05/1988	Everard	330	10	
AM	AC13	4,745,463	05/1988	Lu	358	23	
AM	AD13	4,751,468	06/1988	Agoston	328	133	
AM	AE13	4,757,538	07/1988	Zink	381	7	
AM	AF13	4,768,187	08/1988	Marshall	370	69.1	
AM	AG13	4,769,612	09/1988	Tamakoshi et al.	328	167	
AM	AH13	4,785,463	11/1988	Janc et al.	375	1	
	AI13	4,791,584	12/1988	Greivenkamp, Jr.	364	525	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
AM	AJ13	EP 0 817 369 A2&A3	01/1998	EP	H03D	7/00	N/A
AM	AK13	WO 91/18445 A1	11/1991	PCT	H03D	7/18	N/A
AM	AL13	WO 99/23755 A1	05/1999	PCT	H03D	7/16	N/A
AM	AM13	JP 56-114451	09/1981	JP	H04B	7/02	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	13	Hospitalier, E., "Instruments for Recording and Observing Rapidly Varying Phenomena," <i>Science Abstracts</i> , IEE, Vol. VII, pp. 22-23 (1904).
AO	13	Howard, I.M. and Swansson, N.S., "Demodulating High Frequency Resonance Signals for Bearing Fault Detection," <i>The Institution of Engineers Australia Vibration and Noise Conference</i> , Institution of Engineers, Australia, pp. 115-121 (September 18-20, 1990).
AP	13	Hu, X., <i>A Switched-Current Sample-and-Hold Amplifier for FM Demodulation</i> , Thesis for Master of Applied Science, Dept. of Electrical and Computer Engineering, University of Toronto, UMI Dissertation Services, pp. 1-64 (1995).
AQ	13	Hung, H.-L. A. et al., "Characterization of Microwave Integrated Circuits Using An Optical Phase-Locking and Sampling System," <i>IEEE MTT-S Digest</i> , IEEE, pp. 507-510 (1991).
AR	13	Hurst, P.J., "Shifting the Frequency Response of Switched-Capacitor Filters by Nonuniform Sampling," <i>IEEE Transactions on Circuits and Systems</i> , IEEE Circuits and Systems Society, Vol. 38, No. 1, pp. 12-19 (January 1991).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

JAN 11 2002

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Nm	AA14	4,801,823	01/1989	Yokoyama	307	353	
Nm	AB14	4,806,790	02/1989	Sone	307	353	
Nm	AC14	4,810,904	03/1989	Crawford	307	353	
Nm	AD14	4,810,976	03/1989	Cowley et al.	331	117 R	
Nm	AE14	4,811,362	03/1989	Yester, Jr. et al.	375	75	
Nm	AF14	4,819,252	04/1989	Christopher	375	122	
Nm	AG14	4,833,445	05/1989	Buchele	341	118	
Nm	AH14	4,862,121	08/1989	Hochschild et al.	333	173	
	AI14	4,868,654	09/1989	Juri et al.	358	133	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
Nm	AJ14	JP 8-32556	02/1996	JP	H04L	1/04	No
Nm	AK14	JP 8-139524	05/1996	JP	H03D	7/00	No
Nm	AL14	JP 59-144249	08/1984	JP	H04L	27/00	No
Nm	AM14	JP 63-54002	03/1988	JP	H03B	19/114	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	14	Itakura, T., "Effects of the sampling pulse width on the frequency characteristics of a sample-and-hold circuit," <i>IEE Proceedings Circuits, Devices and Systems</i> , IEE, Vol. 141, No. 4, pp. 328-336 (August 1994).
AO	14	Janssen, J.M.L., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: I. Fundamentals," <i>Philips Technical Review</i> , Philips Research Laboratories, Vol. 12, No. 2, pp. 52-59 (August 1950).
AP	14	Janssen, J.M.L. and Michels, A.J., "An Experimental 'Stroboscopic' Oscilloscope for Frequencies up to about 50 Mc/s: II. Electrical Build-Up," <i>Philips Technical Review</i> , Philips Research Laboratories, Vol. 12, No. 3, pp. 73-82 (September 1950).
AQ	14	Jondral, V.F. et al., "Doppler Profiles for Communication Satellites," <i>Frequenz</i> , Herausberger, pp. 111-116 (May-June 1996).
AR	14	Kaleh, G.K., "A Frequency Diversity Spread Spectrum System for Communication in the Presence of In-band Interference," <i>1995 IEEE Globecom</i> , IEEE Communications Society, pp. 66-70 (1995).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

JAN 11 2002

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092

INFORMATION DISCLOSURE STATEMENT

APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA15	4,870,659	09/1989	Oishi et al.	375	82	
NM	AB15	4,871,987	10/1989	Kawase	332	100	
NM	AC15	4,885,587	12/1989	Wiegand et al.	42	14	
NM	AD15	4,885,756	12/1989	Fontanes et al.	375	82	
NM	AE15	4,888,557	12/1989	Puckette, IV et al.	329	341	
NM	AF15	4,890,302	12/1989	Muilwijk	375	80	
NM	AG15	4,893,316	01/1990	Janc et al.	375	44	
NM	AH15	4,893,341	01/1990	Gehring	381	7	
NM	AI15	4,894,766	01/1990	De Agro	363	159	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ15	JP 6-237276	08/1994	JP	H04L	27/20	No
NM	AK15	JP 8-23359	01/1996	JP	H04L	27/20	No
	AL15						Yes No
	AM15						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	15	Karasawa, Y. et al., "A New Prediction Method for Tropospheric Scintillation on Earth-Space Paths," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. 36, No. 11, pp. 1608-1614 (November 1988).
AO	15	Kirsten, J. and Fleming, J., "Undersampling reduces data-acquisition costs for select applications," EDN, Cahners Publishing, Vol. 35, No. 13, pp. 217-222, 224, 226-228 (June 21, 1990).
AP	15	Lam, W.K. et al., "Measurement of the Phase Noise Characteristics of an Unlocked Communications Channel Identifier," Proceedings Of the 1993 IEEE International Frequency Control Symposium, IEEE, pp. 283-288 (June 2-4, 1993).
AQ	15	Lam, W.K. et al., "Wideband sounding of 11.6 Ghz transhorizon channel," Electronics Letters, IEE, Vol. 30, No. 9, pp. 738-739 (April 28, 1994).
AR	15	Larkin, K.G., "Efficient demodulator for bandpass sampled AM signals," Electronics Letters, IEE, Vol. 32, No. 2, pp. 101-102 (January 18, 1996).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-144

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AM	AA16	4,896,152	01/1990	Tiemann	340	853	
AM	AB16	4,902,979	02/1990	Puckette, IV	329	343	
AM	AC16	4,908,579	03/1990	Tawfik et al.	328	167	
AM	AD16	4,910,752	03/1990	Yester, Jr. et al.	375	75	
AM	AE16	4,914,405	04/1990	Wells	331	25	
AM	AF16	4,920,510	04/1990	Senderowicz et al.	364	825	
AM	AG16	4,922,452	05/1990	Larsen et al.	365	45	
AM	AH16	4,931,921	06/1990	Anderson	363	163	
AM	AI16	4,944,025	07/1990	Gehring et al.	455	207	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ16						Yes No
	AK16						Yes No
	AL16						Yes No
	AM16						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	16	Lau, W.H. et al., "Analysis of the Time Variant Structure of Microwave Line-of-sight Multipath Phenomena," IEEE Global Telecommunications Conference & Exhibition, IEEE, pp. 1707-1711 (November 28 - December 1, 1988).
	AO	16	Lau, W.H. et al., "Improved Prony Algorithm to Identify Multipath Components," Electronics Letters, IEE, Vol. 23, No. 20, pp. 1059-1060 (September 24, 1987).
	AP	16	Lesage, P. and Audoin, C., "Effect of Dead-Time on the Estimation of the Two-Sample Variance," IEEE Transactions on Instrumentation and Measurement, IEEE Instrumentation and Measurement Society, Vol. IM-28, No. 1, pp. 6-10 (March 1979).
	AQ	16	Liechti, C.A., "Performance of Dual-gate GaAs MESFET's as Gain-Controlled Low-Noise Amplifiers and High-Speed Modulators," IEEE Transactions on Microwave Theory and Techniques, IEEE Microwave Theory and Techniques Society, Vol. MTT-23, No. 6, pp. 461-469 (June 1975).
	AR	16	Linnenbrink, T.E. et al., "A One Gigasample Per Second Transient Recorder," IEEE Transactions on Nuclear Science, IEEE Nuclear and Plasma Sciences Society, Vol. NS-26, No. 4, pp. 4443-4449 (August 1979).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA17	4,955,079	09/1990	Connerney et al.	455	325	
NM	AB17	4,965,467	10/1990	Bilterijst	307	352	
NM	AG17	4,967,160	10/1990	Quievy et al.	328	16	
NM	AD17	4,970,703	11/1990	Hariharan et al.	367	138	
NM	AE17	4,982,353	01/1991	Jacob et al.	364	724.10	
NM	AF17	4,984,077	01/1991	Uchida	358	140	
NM	AG17	4,995,055	02/1991	Weinberger et al.	375	5	
NM	AH17	5,003,621	03/1991	Gailus	455	209	
NM	AI17	5,005,169	04/1991	Bronder et al.	370	76	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ17						Yes No
	AK17						Yes No
	AL17						Yes No
	AM17						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	17	Liou, M.L., "A Tutorial on Computer-Aided Analysis of Switched-Capacitor Circuits," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 987-1005 (August 1983).
AO	17	Lo, P. et al., "Coherent Automatic Gain Control," <i>IEE Colloquium on Phase Locked Techniques</i> , IEE, pp. 2/1-2/6 (March 26, 1980).
AP	17	Lo, P. et al., "Computation of Rain Induced Scintillations on Satellite Down-Links at Microwave Frequencies," <i>Third International Conference on Antennas and Propagation (ICAP-83)</i> , pp. 127-131 (April 12-15, 1983).
AQ	17	Lo, P.S.L.O. et al., "Observations of Amplitude Scintillations on a Low-Elevation Earth-Space Path," <i>Electronics Letters</i> , IEE, Vol. 20, No. 7, pp. 307-308 (March 29, 1984).
AR	17	Madani, K. and Aithison, C.S., "A 20 Ghz Microwave Sampler," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE Microwave Theory and Techniques Society, Vol. 40, No. 10, pp. 1960-1963 (October 1992).

EXAMINER

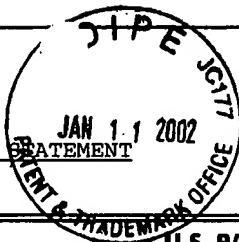
DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

JAN 11 2002

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA18	5,006,810	04/1991	Popescu	328	167	
NM	AB18	5,010,585	04/1991	Garcia	455	118	
NM	AC18	5,014,304	05/1991	Nicollini et al.	379	399	
NM	AD18	5,015,963	05/1991	Sutton	329	361	
NM	AE18	5,017,924	05/1991	Guiberteau et al.	342	195	
NM	AF18	5,020,149	05/1991	Hemmie	455	325	
NM	AG18	5,020,154	05/1991	Zierhut	455	608	
NM	AH18	5,052,050	09/1991	Collier et al.	455	296	
NM	AI18	5,065,409	11/1991	Hughes et al.	375	91	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ18						Yes No
	AK18						Yes No
	AL18						Yes No
	AM18						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	18	Marland, R.A. et al., "130 Ghz GaAs monolithic integrated circuit sampling head," Appl. Phys. Lett., American Institute of Physics, Vol. 55, No. 6, pp. 592-594 (August 7, 1989).
AO	18	Martin, K. and Sedra, A.S., "Switched-Capacitor Building Blocks for Adaptive Systems," IEEE Transactions on Circuits and Systems, IEEE Circuits and Systems Society, Vol. CAS-28, No. 6, pp. 576-584 (June 1981).
AP	18	Marzahn, F.S. and d'Auria, G., "Model-based Prediction of Amplitude Scintillation variance due to Clear-Air Tropospheric Turbulence on Earth-Satellite Microwave Links," IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society, Vol. 46, No. 10, pp. 1506-1518 (October 1998).
AQ	18	Matricciani, E., "Prediction of fade durations due to rain in satellite communication systems," Radio Science, American Geophysical Union, Vol. 32, No. 3, pp. 935-941 (May-June 1997).
AR	18	McQueen, J.G., "The Monitoring of High-Speed Waveforms," Electronic Engineering, Morgan Brothers Limited, Vol. XXIV, No. 296, pp. 436-441 (October 1952).

EXAMINER

DATE CONSIDERED:

7/26/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AM	AA19 5,083,050	01/1992	Vasile	307	529	
Nm	AB19 5,091,921	02/1992	Minami	375	88	
Nm	AC19 5,095,533	03/1992	Loper et al.	455	245	
Nm	AD19 5,095,536	03/1992	Loper	455	324	
Nm	AE19 5,111,152	05/1992	Makino	329	300	
Nm	AF19 5,113,094	05/1992	Grace et al.	307	529	
Nm	AG19 5,113,129	05/1992	Hughes	323	316	
Nm	AH19 5,122,765	06/1992	Pataut	332	105	
Nm	AI19 5,124,592	06/1992	Hagino	307	520	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ19					Yes No
	AK19					Yes No
	AL19					Yes No
	AM19					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	19	Merkelo, J. and Hall, R.D., "Broad-Band Thin-Film Signal Sampler," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-7, No. 1, pp. 50-54 (February 1972).
AO	19	Merlo, U. et al., "Amplitude Scintillation Cycles in a Sirius Satellite-Earth Link," <i>Electronics Letters</i> , IEE, Vol. 21, No. 23, pp. 1094-1096 (November 7, 1985).
AP	19	Morris, D., "Radio-holographic reflector measurement of the 30-m millimeter radio telescope at 22 Ghz with a cosmic signal source," <i>Astronomy and Astrophysics</i> , Springer-Verlag, Vol. 203, No. 2, pp. 399-406 (September (II) 1988).
AQ	19	Moulsley, T.J. et al., "The efficient acquisition and processing of propagation statistics," <i>Journal of the Institution of Electronic and Radio Engineers</i> , IERE, Vol. 55, No. 3, pp. 97-103 (March 1985).
AR	19	Ndizi, D. et al., "Wide-Band Statistical Characterization of an Over-the-Sea Experimental Transhorizon Link," <i>IEE Colloquium on Radio Communications at Microwave and Millimetre-Wave Frequencies</i> , IEE, pp. 1/1-1/6 (December 16, 1996).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NM	AA20	5,136,267	08/1992	Gabot	333	174	RECEIVED JAN 14 2002 Technology Center 2600
NM	AB20	5,140,705	08/1992	Kosuga	455	318	
NM	AC20	5,150,124	09/1992	Moore et al.	342	68	
NM	AD20	5,151,661	09/1992	Caldwell et al.	328	14	
NM	AE20	5,159,710	10/1992	Cusdin	455	304	
NM	AF20	5,170,414	12/1992	Silvian	375	59	
NM	AG20	5,172,070	12/1992	Hiraiwa et al.	329	304	
NM	AH20	5,191,459	03/1993	Thompson et al.	359	133	
NM	AI20	5,204,642	04/1993	Ashgar et al.	331	135	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ20						Yes No
	AK20						Yes No
	AL20						Yes No
	AM20						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	20	Ndzi, D. et al., "Wideband Statistics of Signal Levels and Doppler Spread on an Over-The-Sea Transhorizon Link," IEE Colloquium on Propagation Characteristics and Related System Techniques for Beyond Line-of-Sight Radio, IEE, pp. 9/1-9/6 (November 24, 1997).
	AO	20	"New zero IF chipset from Philips," Electronic Engineering, United News & Media, Vol. 67, No. 825, p. 10 (September 1995).
	AP	20	Ohara, H. et al., "First monolithic PCM filter cuts cost of telecomm systems," Electronic Design, Hayden Publishing Company, Vol. 27, No. 8, pp. 130-135 (April 12, 1979).
	AQ	20	Oppenheim, A.V. et al., Signals and Systems, Prentice-Hall, pp. 527-531 and 561-562 (1983).
	AR	20	Ortgies, G., "Experimental Parameters Affecting Amplitude Scintillation Measurements on Satellite Links," Electronics Letters, IEE, Vol. 21, No. 17, pp. 771-772 (August 15, 1985).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

JAN 11 2002

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

APPLICANT

Sorrells et al.

FILING DATE

January 3, 2000

GROUP

2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
nm	AA21	5,212,827	05/1993	Meszko et al.	455	219	
	AB21	5,214,787	05/1993	Karkota, Jr.	455	3.2	
	AC21	5,220,583	06/1993	Solomon	375	82	
	AD21	5,220,680	06/1993	Lee	455	102	
	AE21	5,222,144	06/1993	Whitehart	381	15	
	AF21	5,230,097	07/1993	Currie et al.	455	226.1	
	AG21	5,239,686	08/1993	Downey	455	78	
	AH21	5,241,561	08/1993	Barnard	375	1	
	AI21	5,249,203	09/1993	Loper	375	97	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ21						Yes No
	AK21						Yes No
	AL21						Yes No
	AM21						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

nm	AN	21	Pärssinen et al., "A 2-GHz Subharmonic Sampler for Signal Downconversion," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, Vol. 45, No. 12, 7 pages (December 1997).
	AO	21	Peeters, G. et al., "Evaluation of Statistical Models for Clear-Air Scintillation Prediction Using Olympus Satellite Measurements," <i>International Journal of Satellite Communications</i> , John Wiley and Sons, Vol. 15, No. 2, pp. 73-88 (March-April 1997).
	AP	21	Perrey, A.G. and Schoenwetter, H.K., <i>NBS Technical Note 1121: A Schottky Diode Bridge Sampling Gate</i> , U.S. Dept. of Commerce, pp. 1-14 (May 1980).
	AQ	21	Poulton, K. et al., "A 1-GHz 6-bit ADC System," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-22, No. 6, pp. 962-969 (December 1987).
	AR	21	Press Release, "Parkvision, Inc. Announces Fiscal 1993 Results," Lippert/Heilshorn and Associates, 2 Pages (April 6, 1994).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
MM	AA22	5,251,218	10/1993	Stone et al.	370	120	
	AB22	5,251,232	10/1993	Nonami	375	5	
	AC22	5,260,970	11/1993	Henry et al.	375	10	
	AD22	5,263,194	11/1993	Ragan	455	316	
	AE22	5,263,196	11/1993	Jasper	455	324	
	AF22	5,267,023	11/1993	Kawasaki	358	23	
	AG22	5,278,826	01/1994	Murphy et al.	370	76	
	AH22	5,282,023	01/1994	Scarpa	358	36	
	AI22	5,287,516	02/1994	Schaub	375	88	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ22						Yes No
	AK22						Yes No
	AL22						Yes No
	AM22						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	22	Press Release, "Parkervision, Inc. Announces the Appointment of Michael Baker to the New Position of National Sales Manager," Lippert/Heilshorn and Associates, 1 Page (April 7, 1994).
AO	22	Press Release, "Parkervision's Cameraman Well-Received By Distance Learning Market," Lippert/Heilshorn and Associates, 2 Pages (April 8, 1994).
AP	22	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 2 Pages (April 26, 1994).
AQ	22	Press Release, "Parkervision, Inc. Announces The Retirement of William H. Fletcher, Chief Financial Officer," Lippert/Heilshorn and Associates, 1 Page (May 11, 1994).
AR	22	Press Release, "Parkervision, Inc. Announces New Cameraman System II™ At Infocomm Trade Show," Lippert/Heilshorn and Associates, 3 Pages (June 9, 1994).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

JAN 11 2002

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Wm	AA23	5,293,398	03/1994	Hamao et al.	375	1	
	AB23	5,303,417	04/1994	Laws	455	314	
	AC23	5,307,517	04/1994	Rich	455	306	
	AD23	5,315,583	05/1994	Murphy et al.	370	18	
	AE23	5,321,852	06/1994	Seong	455	182.1	
	AF23	5,325,204	06/1994	Scarpa	348	607	
	AG23	5,337,014	08/1994	Najle et al.	324	613	
	AH23	5,339,054	08/1994	Taguchi	332	100	
	AI23	5,339,459	08/1994	Schiltz et al.	455	333	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ23						Yes No
	AK23						Yes No
	AL23						Yes No
	AM23						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Wm	AN	23	Press Release, "Parkervision, Inc. Announces Appointments to its National Sales Force," Lippert/Heilshorn and Associates, 2 Pages (June 17, 1994).
	AO	23	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (August 9, 1994).
	AP	23	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Lippert/Heilshorn and Associates, 3 Pages (October 28, 1994).
	AQ	23	Press Release, "Parkervision, Inc. Announces First Significant Dealer Sale of Its Cameraman® System II," Lippert/Heilshorn and Associates, 2 Pages (November 7, 1994).
	AR	23	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Lippert/Heilshorn and Associates, 2 Pages (March 1, 1995).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Nm	AA24	5,355,114	10/1994	Sutterlin et al.	340	310 A	
	AB24	5,361,408	11/1994	Watanabe et al.	455	324	
	AC24	5,369,800	11/1994	Takagi et al.	455	59	
	AD24	5,375,146	12/1994	Chalmers	375	103	
	AE24	5,379,040	01/1995	Mizomoto et al.	341	143	
	AF24	5,379,141	01/1995	Thompson et al.	359	125	
	AG24	5,388,063	02/1995	Takatori et al.	364	724.17	
	AH24	5,390,364	02/1995	Webster et al.	455	52.3	
	AI24	5,400,084	03/1995	Scarpa	348	624	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ24						Yes No
	AK24						Yes No
	AL24						Yes No
	AM24						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Nm	AN	24	Press Release, "Parkervision, Inc. Announces Joint Product Developments With VTEL," Lippert/Heilshorn and Associates, 2 Pages (March 21, 1995).
	AO	24	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Lippert/Heilshorn and Associates, 3 Pages (April 28, 1995).
	AP	24	Press Release, "Parkervision Wins Top 100 Product Districts' Choice Award," Parkervision Marketing and Manufacturing Headquarters, 1 Page (June 29, 1995).
	AQ	24	Press Release, "Parkervision National Sales Manager Next President of USDLA," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 6, 1995).
	AR	24	Press Release, "Parkervision Granted New Patent," Parkervision Marketing and Manufacturing Headquarters, 1 Page (July 21, 1995).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Nm	AA25	5,404,127	04/1995	Lee et al.	340	310.02	
	AB25	5,410,541	04/1995	Hotto	370	76	
	AC25	5,410,743	04/1995	Seely et al.	455	326	
	AD25	5,412,352	05/1995	Graham	332	103	
	AE25	5,416,803	05/1995	Janer	375	324	
	AF25	5,422,913	06/1995	Wilkinson	375	347	
	AG25	5,423,082	06/1995	Cygan et al.	455	126	
	AH25	5,428,638	06/1995	Cioffi et al.	375	224	
	AI25	5,428,640	06/1995	Townley	375	257	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ25						Yes No
	AK25						Yes No
	AL25						Yes No
	AM25						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Nm	AN	25	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 31, 1995).
	AO	25	Press Release, "Parkervision, Inc. Expands Its Cameraman System II Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 22, 1995).
	AP	25	Press Release, "Parkervision Announces New Camera Control Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 25, 1995).
	AQ	25	Press Release, "Parkervision, Inc. Announces Completion of VTEL/Parkervision Joint Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995).
	AR	25	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1995).

EXAMINER *Nm*DATE CONSIDERED
07/22/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA26	5,434,546	07/1995	Palmer	332	151	
	AB26	5,438,692	08/1995	Mohindra	455	324	
	AC26	5,444,415	08/1995	Dent et al.	329	302	
	AD26	5,444,416	08/1995	Ishikawa et al.	329	341	
	AE26	5,444,865	08/1995	Heck et al.	455	86	
	AF26	5,446,421	08/1995	Kechkaylo	332	100	
	AG26	5,446,422	08/1995	Mattila et al.	332	103	
	AH26	5,448,602	09/1995	Ohmori et al.	375	347	
	AI26	5,451,899	09/1995	Lawton	329	302	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ26						Yes No
	AK26						Yes No
	AL26						Yes No
	AM26						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	<u>26</u>	Press Release, "Parkervision's Cameraman Personal Locator Camera System Wins Telecon XV Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (November 1, 1995).
AO	<u>26</u>	Press Release, "Parkervision, Inc. Announces Purchase Commitment From VTEL Corporation," Parkervision Marketing and Manufacturing Headquarters, 1 Page (February 26, 1996).
AP	<u>26</u>	Press Release, "ParkerVision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (February 27, 1996).
AQ	<u>26</u>	Press Release, "ParkerVision, Inc. Expands its Product Line," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 7, 1996).
AR	<u>26</u>	Press Release, "ParkerVision Files Patents for its Research of Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 1 Page (March 28, 1996).

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

APPLICANT

Sorrells et al.

FILING DATE

January 3, 2000

GROUP

2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Non	AA27	5,454,007	09/1995	Dutta	375	322	
	AB27	5,454,009	09/1995	Fruit et al.	372	202	
	AC27	5,463,356	10/1995	Palmer	332	117	
	AD27	5,463,357	10/1995	Hobden	332	151	
	AE27	5,465,071	11/1995	Kobayashi et al.	329	315	
	AF27	5,465,410	11/1995	Hiben et al.	455	266	
	AG27	5,465,415	11/1995	Bien	455	326	
	AH27	5,471,162	11/1995	McEwan	327	92	
	AI27	5,479,120	12/1995	McEwan	327	91	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ27						Yes No
	AK27						Yes No
	AL27						Yes No
	AM27						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	27	Press Release, "Parkervision, Inc. Announces First Significant Sale of Its Cameraman® Three-Chip System," Parkervision Marketing and Manufacturing Headquarters, 2 pages (April 12, 1996).
AO	27	Press Release, "Parkervision, Inc. Introduces New Product Line For Studio Production Market," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1996).
AP	27	Press Release, "Parkervision, Inc. Announces Private Placement of 800,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 1 Page (April 15, 1996).
AQ	27	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 30, 1996).
AR	27	Press Release, "ParkerVision's New Studio Product Wins Award," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (June 5, 1996).

EXAMINER

DATE CONSIDERED

07, 25, 02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA28	5,479,447	12/1995	Chow et al.	375	260	
	AB28	5,483,193	01/1996	Kennedy et al.	329	300	
	AC28	5,483,549	01/1996	Weinberg et al.	375	200	
	AD28	5,483,691	01/1996	Heck et al.	455	234.2	
	AE28	5,490,173	02/1996	Whitehart et al.	375	316	
	AE28	5,493,581	02/1996	Young et al.	375	350	
	AG28	5,493,721	02/1996	Reis	455	339	
	AH28	5,495,200	02/1996	Kwan et al.	327	554	
	AI28	5,495,200	02/1996	Hsu	327	113	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ28						Yes No
	AK28						Yes No
	AL28						Yes No
	AM28						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	28	Press Release, "Parkervision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (August 1, 1996).
	AO	28	Press Release, "Parkervision, Inc. Announces Third Quarter and Nine Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 29, 1996).
	AP	28	Press Release, "PictureTel and ParkerVision Sign Reseller Agreement," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 30, 1996).
	AQ	28	Press Release, "CLI and ParkerVision Bring Enhanced Ease-of-Use to Videoconferencing," CLI/Parkervision, 2 Pages (January 20, 1997).
	AR	28	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (February 27, 1997).

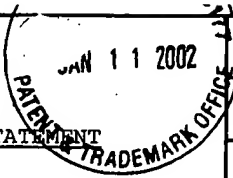
EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
A744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA29	5,495,500	02/1996	Jovanovich et al.	375	206	
	AB29	5,499,267	03/1996	Ohe et al.	375	206	
	AC29	5,500,758	03/1996	Thompson et al.	359	189	
	AD29	5,517,688	05/1996	Fajen et al.	455	333	
	AE29	5,519,890	05/1996	Pinckley	455	307	
	AF29	5,523,719	06/1996	Longo et al.	327	557	
	AG29	5,523,726	06/1996	Kroeger et al.	332	103	
	AH29	5,523,760	06/1996	McEwan	342	89	
	AI29	5,539,770	07/1996	Ishigaki	375	206	

RECEIVED
JAN 14 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ29						Yes No
	AK29						Yes No
	AL29						Yes No
	AM29						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	29	Press Release, "Parkervision, Inc. Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (April 29, 1997).
	AO	29	Press Release, "NEC and Parkervision Make Distance Learning Closer," NEC America, 2 Pages (June 18, 1997).
	AP	29	Press Release, "Parkervision Supplies JPL with Robotic Cameras, Cameraman Shot Director for Mars Mission," Parkervision Marketing and Manufacturing Headquarters, 2 pages (July 8, 1997).
	AQ	29	Press Release, "ParkerVision and IBM Join Forces to Create Wireless Computer Peripherals," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 23, 1997).
	AR	29	Press Release, "ParkerVision, Inc. Announces Second Quarter and Six Months Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 31, 1997).

EXAMINER

DATE CONSIDERED

12/18/97

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NM	AA30	5,555,453	09/1996	Kajimoto et al.	455	266	
	AB30	5,557,641	09/1996	Weinberg	375	295	
	AC30	5,557,642	09/1996	Williams	375	316	
	AD30	5,579,341	11/1996	Smith et al.	375	267	
	AE30	5,579,347	11/1996	Lindquist et al.	375	346	
	AF30	5,584,068	12/1996	Mohindra	455	324	
	AG30	5,592,131	01/1997	Labreche et al.	332	103	
	AH30	5,602,847	02/1997	Pagano et al.	370	484	
	AI30	5,602,868	02/1997	Wilson	375	219	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ30						Yes No
	AK30						Yes No
	AL30						Yes No
	AM30						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	30	Press Release, "Parkervision, Inc. Announces Private Placement of 990,000 Shares," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (September 8, 1997).
	AO	30	Press Release, "Wal-Mart Chooses Parkervision for Broadcast Production," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (October 24, 1997).
	AP	30	Press Release, "Parkervision, Inc. Announces Third Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1997).
	AQ	30	Press Release, "ParkerVision Announces Breakthrough in Wireless Radio Frequency Technology," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 10, 1997).
	AR	30	Press Release, "Parkervision, Inc. Announces the Appointment of Joseph F. Skovron to the Position of Vice President, Licensing - Wireless Technologies," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 9, 1998).

EXAMINER *N. M. H. J.*

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

APPLICANT

Sorrells et al.

FILING DATE

January 3, 2000

GROUP

2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA31	5,604,732	02/1997	Kim et al.	370	342	
	AB31	5,608,531	03/1997	Honda et al.	386	1	
	AC31	5,610,946	03/1997	Tanaka et al.	375	269	
	AD31	RE 35,494	04/1997	Nicollini	327	554	
	AE31	5,617,451	04/1997	Mimura et al.	375	340	
	AF31	5,619,538	04/1997	Sempel et al.	375	328	
	AG31	5,621,455	04/1997	Rogers et al.	348	6	
	AH31	5,630,227	05/1997	Bella et al.	455	324	
	AI31	5,640,415	06/1997	Pandula	375	202	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ31						Yes No
	AK31						Yes No
	AL31						Yes No
	AM31						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	31	Press Release, "Parkervision Announces Existing Agreement with IBM Terminates-- Company Continues with Strategic Focus Announced in December," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 27, 1998).
	AO	31	Press Release, "Laboratory Tests Verify Parkervision Wireless Technology," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 3, 1998).
	AP	31	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1998).
	AQ	31	Press Release, "Parkervision Awarded Editors' Pick of Show for NAB 98," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 15, 1998).
	AR	31	Press Release, "Parkervision Announces First Quarter Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (May 4, 1998).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

JAN 11 2002

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
Wm	AA32	5,640,424	06/1997	Banavong et al.	375	316	
	AB32	5,640,428	06/1997	Abe et al.	375	334	
	AC32	5,640,698	06/1997	Shen et al.	455	323	
	AD32	5,648,985	07/1997	Bjerede et al.	375	219	
	AE32	5,650,785	07/1997	Rodal	342	357	
	AF32	5,661,424	08/1997	Tang	327	105	
	AG32	5,663,878	09/1997	Walker	363	159	
	AH32	5,663,986	09/1997	Striffler	375	260	
	AI32	5,668,836	09/1997	Smith et al.	375	316	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ32						Yes No
	AK32						Yes No
	AL32						Yes No
	AM32						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	32	Press Release, "Parkervision 'DIRECT2DATA' Introduced in Response to Market Demand," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (July 9, 1998).
AO	32	Press Release, "Parkervision Expands Senior Management Team," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (July 29, 1998).
AP	32	Press Release, "Parkervision Announces Second Quarter and Six Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 4 Pages (July 30, 1998).
AQ	32	Press Release, "Parkervision Announces Third Quarter and Nine Month Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (October 30, 1998).
AR	32	Press Release, "Questar Infocomm, Inc. Invests \$5 Million in Parkervision Common Stock," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (December 2, 1998).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA33	5,680,078	10/1997	Ariie	332	178	
	AB33	5,680,418	10/1997	Croft et al.	375	346	
	AC33	5,689,413	11/1997	Jaramillo et al.	363	146	
	AD33	5,699,006	12/1997	Zeie et al.	327	341	
	AE33	5,705,955	01/1998	Freeburg et al.	331	14	
	AF33	5,710,998	01/1998	Opas	455	324	
	AG33	5,714,910	02/1998	Skoczen et al.	331	3	
	AH33	5,715,281	02/1998	Bly et al.	375	344	
	AI33	5,721,514	02/1998	Crockett et al.	331	3	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ33						Yes No
	AK33						Yes No
	AL33						Yes No
	AM33						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	33	Press Release, "Parkervision Adds Two New Directors," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (March 5, 1999).
	AO	33	Press Release, "Parkervision Announces Fourth Quarter and Year End Financial Results," Parkervision Marketing and Manufacturing Headquarters, 3 Pages (March 5, 1999).
	AP	33	Press Release, "Joint Marketing Agreement Offers New Automated Production Solution," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (April 13, 1999).
	AQ	33	"Project COST 205: Scintillations in Earth-satellite links," <i>Alta Frequenza: Scientific Review in Electronics</i> , AEI, Vol. LIV, No. 3, pp. 209-211 (May-June, 1985).
	AR	33	Razavi, B., <i>RF Microelectronics</i> , Prentice-Hall, pp. 147-149 (1998).

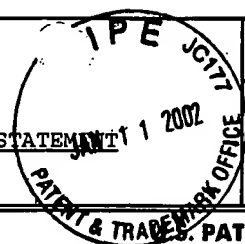
EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Nm	AA34	5,724,002	03/1998	Hulick	329	361	
	AB34	5,724,653	03/1998	Baker et al.	455	296	
	AC34	5,729,577	03/1998	Chen	375	334	
	AD34	5,729,829	03/1998	Talwar et al.	455	63	
	AE34	5,732,333	03/1998	Cox et al.	455	126	
	AF34	5,736,895	04/1998	Yu et al.	327	554	
	AG34	5,737,035	04/1998	Rotzoll	348	725	
	AH34	5,742,189	04/1998	Yoshida et al.	327	113	
	AI34	5,748,683	05/1998	Smith et al.	375	347	

RECEIVED
JAN 14 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ34						Yes No
	AK34						Yes No
	AL34						Yes No
	AM34						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Nm	AN	34	Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 1)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 373, pp. 130-137 (March 1959).
	AO	34	Reeves, R.J.D., "The Recording and Collocation of Waveforms (Part 2)," <i>Electronic Engineering</i> , Morgan Brothers Limited, Vol. 31, No. 374, pp. 204-212 (April 1959).
	AP	34	Rein, H.M. and Zahn, M., "Subnanosecond-Pulse Generator with Variable Pulsewidth Using Avalanche Transistors," <i>Electronics Letters</i> , IEE, Vol. 11, No. 1, pp. 21-23 (January 9, 1975).
	AQ	34	Riad, S.M. and Nahman, N.S., "Modeling of the Feed-through Wideband (DC to 12.4 Ghz) Sampling-Head," <i>IEEE MTT-S International Microwave Symposium Digest</i> , IEEE, pp. 267-269 (June 27-29, 1978).
	AR	34	Rizzoli, V. et al., "Computer-Aided Noise Analysis of MESFET and HEMT Mixers," <i>IEEE Transactions on Microwave Theory and Techniques</i> , IEEE, Vol. 37, No. 9, pp. 1401-1410 (September 1989).

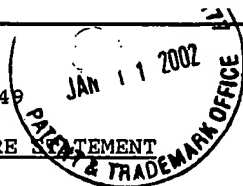
EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA35	RE 35,829	06/1998	Sanderford, Jr.	375	200	
	AB35	5,760,645	06/1998	Comte et al.	329	304	
	AC35	5,764,087	06/1998	Clark	327	105	
	AD35	5,767,726	06/1998	Wang	327	356	
	AE35	5,768,118	06/1998	Faulk et al.	363	72	
	AF35	5,771,442	06/1998	Wang et al.	455	93	
	AG35	5,777,692	07/1998	Ghosh	348	725	
	AH35	5,777,771	07/1998	Smith	359	180	
	AI35	5,786,844	07/1998	Rogers et al.	348	6	

RECEIVED
JAN 14 2002
Technology Center 2800

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ35						Yes No
	AK35						Yes No
	AL35						Yes No
	AM35						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	35	Rowe, H.E., <i>Signals and Noise in Communication Systems</i> , D. Van Nostrand Company, Inc., Princeton, New Jersey, including, for example, Chapter V, Pulse Modulation Systems (1965).
	AO	35	Rücker, F. and Dintelmann, F., "Effect of Antenna Size on OTS Signal Scintillations and Their Seasonal Dependence," <i>Electronics Letters</i> , IEE, Vol. 19, No. 24, pp. 1032-1034 (November 24, 1983).
	AP	35	Russell, R. and Hoare, L., "Millimeter Wave Phase Locked Oscillators," <i>Military Microwaves '78 Conference Proceedings</i> , Microwave Exhibitions and Publishers, pp. 238-242 (October 25-27, 1978).
	AQ	35	Sabel, L.P., "A DSP Implementation of a Robust Flexible Receiver/Demultiplexer for Broadcast Data Satellite Communications," <i>The Institution of Engineers Australia Communications Conference</i> , Institution of Engineers, Australia, pp. 218-223 (October 16-18, 1990).
	AR	35	Salous, S., "IF digital generation of FMCW waveforms for wideband channel characterization," <i>IEE Proceedings-I</i> , IEE, Vol. 139, No. 3, pp. 281-288 (June 1992).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
nm	AA36	5,793,801	08/1998	Fertner	375	219	
	AB36	5,793,818	08/1998	Claydon et al.	375	326	
	AC36	5,802,463	09/1998	Zuckerman	455	208	
	AD36	5,809,060	09/1998	Cafarella et al.	375	206	
	AE36	5,818,582	10/1998	Fernandez et al.	356	318	
	AF36	5,825,254	10/1998	Lee	331	25	
	AG36	5,834,985	11/1998	Sundegård	332	100	
	AH36	5,864,754	01/1999	Hotto	455	280	
	AI36	5,881,375	03/1999	Bonds	455	118	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ36						Yes No
	AK36						Yes No
	AL36						Yes No
	AM36						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

nm	AN	36	"Sampling Loops Lock Sources to 23 Ghz," <i>Microwaves & RF</i> , Penton Publishing, p. 212 (September 1990).
	AO	36	Sasikumar, M. et al., "Active Compensation in the Switched-Capacitor Biquad," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 1008-1009 (August 1983).
	AP	36	Saul, P.H., "A GaAs MESFET Sample and Hold Switch," <i>Fifth European Solid State Circuits Conference-ESSCIRC 79</i> , IEE, pp. 5-7 (1979).
	AQ	36	Shen, D.H. et al., "A 900-MHZ RF Front-End with Integrated Discrete-Time Filtering," <i>IEEE Journal of Solid-State Circuits</i> , IEEE Solid-State Circuits Council, Vol. 31, No. 12, pp. 1945-1954 (December 1996).
	AR	36	Shen, X.D. and Vilar, E., "Anomalous transhorizon propagation and meteorological processes of a multilink path," <i>Radio Science</i> , American Geophysical Union, Vol. 30, No. 5, pp. 1467-1479 (September-October 1995).

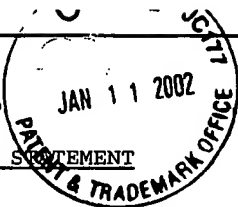
EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NM	AA37	5,892,380	04/1999	Quist	327	172	
	AB37	5,894,239	04/1999	Bonaccio et al.	327	176	
	AC37	5,896,562	04/1999	Heinonen	455	76	
	AD37	5,900,747	05/1999	Brauns	327	9	
	AE37	5,901,054	05/1999	Leu et al.	363	41	
	AF37	5,901,187	05/1999	Linuma	375	347	
	AG37	5,901,344	05/1999	Opas	455	76	
	AH37	5,901,347	05/1999	Chambers et al.	455	234.1	
	AI37	5,901,348	05/1999	Bang et al.	455	254	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ37						Yes No
	AK37						Yes No
	AL37						Yes No
	AM37						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	37	Shen, X. and Tawfik, A.N., "Dynamic Behaviour of Radio Channels Due to Trans-Horizon Propagation Mechanisms," <i>Electronics Letters</i> , IEE, Vol. 29, No. 17, pp. 1582-1583 (August 19, 1993).
	AO	37	Shen, X. et al., "Modeling Enhanced Spherical Diffraction and Troposcattering on a Transhorizon Path with aid of the parabolic Equation and Ray Tracing Methods," <i>IEE Colloquium on Common modeling techniques for electromagnetic wave and acoustic wave propagation</i> , IEE, pp. 4/1-4/7 (March 8, 1996).
	AP	37	Shen, X. and Vilar, E., "Path loss statistics and mechanisms of transhorizon propagation over a sea path," <i>Electronics Letters</i> , IEE, Vol. 32, No. 3, pp. 259-261 (February 1, 1996).
	AQ	37	Shen, D. et al., "A 900 MHZ Integrated Discrete-Time Filtering RF Front-End," <i>IEEE International Solid State Circuits Conference</i> , IEEE, Vol. 39, pp. 54-55 and 417 (February 1996).
	AR	37	Spillard, C. et al., "X-Band Tropospheric Transhorizon Propagation Under Differing Meteorological Conditions," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 451-455 (April 4-7, 1989).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Wm	AA38	5,901,349	05/1999	Guegnaud et al.	455	302	
	AB38	5,903,178	05/1999	Miyatsuji et al.	327	308	
	AC38	5,903,187	05/1999	Claverie et al.	329	342	
	AD38	5,903,196	05/1999	Salvi et al.	331	16	
	AE38	5,903,421	05/1999	Furutani et al.	361	58	
	AF38	5,903,553	05/1999	Sakamoto et al.	370	338	
	AG38	5,903,595	05/1999	Suzuki	375	207	
	AH38	5,903,609	05/1999	Kool et al.	375	261	
	AI38	5,903,827	05/1999	Kennan et al.	455	326	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ38						Yes No
	AK38						Yes No
	AL38						Yes No
	AM38						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Wm	AN	<u>38</u>	Stafford, K.R. et al., "A Complete Monolithic Sample/Hold Amplifier," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-9, No. 6, pp. 381-387 (December 1974).
	AO	<u>38</u>	Staruk, W. Jr. et al., "Pushing HF Data Rates," <i>Defense Electronics</i> , EW Communications, Vol. 17, No. 5, pp. 211, 213, 215, 217, 220 and 222 (May 1985).
	AP	<u>38</u>	Stephenson, A.G., "Digitizing multiple RF signals requires an optimum sampling rate," <i>Electronics</i> , McGraw-Hill, pp. 106-110 (March 27, 1972).
	AQ	<u>38</u>	Sugarman, R., "Sampling Oscilloscope for Statistically Varying Pulses," <i>The Review of Scientific Instruments</i> , American Institute of Physics, Vol. 28, No. 11, pp. 933-938 (November 1957).
	AR	<u>38</u>	Sylvain, M., "Experimental probing of multipath microwave channels," <i>Radio Science</i> , American Geophysical Union, Vol. 24, No. 2, pp. 160-178 (March-April 1989).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

APPLICANT

Corrells et al.

FILING DATE

January 3, 2000

GROUP

2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Nm	AA39	5,903,854	05/1999	Abe et al.	455	575	
	AB39	5,905,449	05/1999	Tsubouchi et al.	340	925.69	
	AC39	5,907,149	05/1999	Marckini	235	487	
	AD39	5,907,197	05/1999	Faulk	307	119	
	AE39	5,911,116	06/1999	Nosswitz	455	83	
	AF39	5,911,123	06/1999	Shaffer et al.	455	554	
	AG39	5,914,622	05/1999	Inoue	327	172	
	AH39	5,920,199	07/1999	Sauer	324	678	
	AI39	5,943,370	06/1999	Smith	375	334	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ39						Yes No
	AK39						Yes No
	AL39						Yes No
	AM39						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Nm	AN	39	Takano, T., "NOVEL GaAs Pet Phase Detector Operable To Ka Band," <i>IEEE MT-S Digest</i> , IEEE, pp. 381-383 (1984).
	AO	39	Tan, M.A., "Biquadratic Transconductance Switched-Capacitor Filters," <i>IEEE Transactions on Circuits and Systems- I: Fundamental Theory and Applications</i> , IEEE Circuits and Systems Society, Vol. 40, No. 4, pp. 272-275 (April 1993).
	AP	39	Tanaka, K. et al., "Single Chip Multisystem AM Stereo Decoder IC," <i>IEEE Transactions on Consumer Electronics</i> , IEEE Consumer Electronics Society, Vol. CE-32, No. 3, pp. 482-496 (August 1986).
	AQ	39	Tawfik, A.N., "Amplitude, Duration and Predictability of Long Hop Trans-Horizon X-band Signals Over the Sea," <i>Electronics Letters</i> , IEE, Vol. 28, No. 6, pp. 571-572 (March 12, 1992).
	AR	39	Tawfik, A.N. and Vilar, E., "Correlation of Transhorizon Signal Level Strength with Localized Surface Meteorological Parameters," <i>Eighth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 335-339 (March 30- April 2, 1993).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

APPLICANT

Sorrells et al.

FILING DATE

January 3, 2000

GROUP

2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA40	4,017,798	04/1977	Gordy et al.	325	42	
	AB40	4,032,847	06/1977	Unkauf	325	323	
	AC40	4,253,067	02/1981	Caples et al.	329	110	
	AD40	4,393,395	07/1983	Hacke et al.	358	23	
	AE40	4,816,704	03/1989	Fiori, Jr.	307	519	
	AF40	4,841,265	06/1989	Watanabe et al.	333	194	
	AG40	4,943,974	07/1990	Motamedi	375	1	
	AH40	5,115,409	05/1992	Stepp	364	841	
	AI40	5,353,306	10/1994	Yamamoto	375	14	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ40						Yes No
	AK40						Yes No
	AL40						Yes No
	AM40						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	40	Tawfik, A.N. and Vilar, E., "Dynamic Structure of a Transhorizon Signal at X-band Over a Sea Path," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 446-450 (April 4-7, 1989).
	AO	40	Tawfik, A.N. and Vilar, E., "Statistics of Duration and Intensity of Path Loss in a Microwave Transhorizon Sea-Path," <i>Electronics Letters</i> , IEE, Vol. 26, No. 7, pp. 474-476 (March 29, 1990).
	AP	40	Tawfik, A.N. and Vilar, E., "X-Band Transhorizon Measurements of CW Transmissions Over the Sea- Part 1: Path Loss, Duration of Events, and Their Modeling," <i>IEEE Transactions on Antennas and Propagation</i> , IEEE Antennas and Propagation Society, Vol. 41, No. 11, pp. 1491-1500 (November 1993).
	AQ	40	Temes, G.C. and Tsvividis, T., "The Special Section on Switched-Capacitor Circuits," <i>Proceedings of the IEEE</i> , IEEE, Vol. 71, No. 8, pp. 915-916 (August 1983).
	AR	40	Thomas, G.B., <i>Calculus and Analytic Geometry</i> , Third Edition, Addison-Wesley Publishing, pp. 119-133 (1960).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AM	AA41	5,515,014	05/1996	Troutman	332	178	
	AB41	5,563,550	10/1996	Toth	329	347	
	AC41	5,574,755	11/1996	Persico	375	295	
	AD41	5,604,592	02/1997	Kotidis et al.	356	357	
	AE41	5,638,396	06/1997	Klimek	372	92	
	AF41	5,675,392	10/1997	Nayebi et al.	348	584	
	AG41	5,694,096	12/1997	Ushiroku et al.	333	195	
	AH41	5,757,870	05/1998	Miya et al.	375	367	
	AI41	5,768,323	06/1998	Kroeger et al.	375	355	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ41						Yes No
	AK41						Yes No
	AL41						Yes No
	AM41						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	AN	41	Tomassetti, Q., "An Unusual Microwave Mixer," 16 th European Microwave Conference, Microwave Exhibitions and Publishers, pp. 754-759 (September 8-12, 1986).
	AO	41	Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984).
	AP	41	Tsividis, Y. and Antognetti, P. (Ed.), Design of MOS VLSI Circuits for Telecommunications, Prentice-Hall, p. 304 (1985).
	AQ	41	Tsividis, Y., "Principles of Operation and Analysis of Switched-Capacitor Circuits," Proceedings of the IEEE, IEEE, Vol. 71, No. 8, pp. 926-940 (August 1983).
	AR	41	Tsurumi, H. and Maeda, T., "Design Study on a Direct Conversion Receiver Front-End for 280 MHz, 900 MHz, and 2.6 GHz Band Radio Communication Systems," 41 st IEEE Vehicular Technology Conference, IEEE Vehicular Technology Society, pp. 457-462 (May 19-22, 1991).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Nm	AA42	5,770,985	06/1998	Ushiroku et al.	333	193	
	AB42	5,778,022	07/1998	Walley	375	206	
	AC42	5,812,546	09/1998	Zhou et al.	370	342	
	AD42	5,818,869	10/1998	Miya et al.	375	206	
	AE42	5,844,449	12/1998	Abeno et al.	332	105	
	AF42	5,872,446	02/1999	Cranford, Jr. et al.	323	315	
	AG42	5,909,447	06/1999	Cox et al.	370	508	
	AH42	5,933,467	08/1999	Sehier et al.	375	350	
	AI42	5,952,895	09/1999	McCune, Jr. et al.	332	128	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ42						Yes No
	AK42						Yes No
	AL42						Yes No
	AM42						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Nm	AN	42	Valdmanis, J.A. et al., "Picosecond and Subpicosecond Optoelectronics for Measurements of Future High Speed Electronic Devices," <i>IEDM Technical Digest, IEEE</i> , pp. 597-600 (December 5-7, 1983).
	AO	42	van de Kamp, M.M.J.L., "Asymmetric signal level distribution due to tropospheric scintillation," <i>Electronics Letters, IEE</i> , Vol. 34, No. 11, pp. 1145-1146 (May 28, 1998).
	AP	42	Vasseur, H. and Vanhoenacker, D., "Characterization of tropospheric turbulent layers from radiosonde data," <i>Electronics Letters, IEE</i> , Vol. 34, No. 4, pp. 318-319 (February 19, 1998).
	AQ	42	Verdone, R., "Outage Probability Analysis for Short-Range Communication Systems at 60 Ghz in ATT Urban Environments," <i>IEEE Transactions on Vehicular Technology, IEEE Vehicular Technology Society</i> , Vol. 46, No. 4, pp. 1027-1039 (November 1997).
	AR	42	Vierira-Ribeiro, S.A., <i>Single-IF DECT Receiver Architecture using a Quadrature Sub-Sampling Band-Pass Sigma-Delta Modulator</i> , Thesis for Degree of Master's of Engineering, Carleton University, UMI Dissertation Services, pp. 1-180 (April 1995).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA43	5,960,033	09/1999	Shibano et al.	375	207	
	AB43	6,041,073	03/2000	Davidovici et al.	375	148	09/18/1998
	AC43	6,054,889	04/2000	Kobayashi	327	357	11/11/1997
	AD43	6,084,922	07/2000	Zhou et al.	375	316	04/16/1998
	AE43	6,125,271	09/2000	Rowland et al.	455	313	03/06/1998
	AF43	6,147,340	11/2000	Levy	250	214 R	09/29/1998
	AG43	6,147,763	11/2000	Steinlechner	356	484	12/27/1999
	AH43	6,150,890	11/2000	Damgaard et al.	331	14	09/30/1998
	AI43	5,126,682	06/1992	Weinberg et al.	329	304	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ43						Yes No
	AK43						Yes No
	AL43						Yes No
	AM43						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	43	Vilar, E. et al., "A Comprehensive/Selective MM-Wave Satellite Downlink Experiment on Fade Dynamics," Tenth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 2.98-2.101 (April 14-17, 1997).
	AO	43	Vilar, E. et al., "A System to Measure LOS Atmospheric Transmittance at 19 Ghz," AGARD Conference Proceedings No. 346: Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation, AGARD, pp. 8-1 - 8-16 (October 4-7, 1983).
	AP	43	Vilar, E. and Smith, H., "A Theoretical and Experimental Study of Angular Scintillations in Earth Space Paths," IEEE Transactions on Antennas and Propagation, IEEE, Vol. AP-34, No. 1, pp. 2-10 (January 1986).
	AQ	43	Vilar, E. et al., "A Wide Band Transhorizon Experiment at 11.6 Ghz," Eighth International Conference on Antennas and Propagation, Electronics Division of the IEE, pp. 441-445 (March 30- April 2, 1993).
	AR	43	Vilar, E. and Matthews, P.A., "Amplitude Dependence of Frequency in Oscillators," Electronics Letters, IEE, Vol. 8, No. 20, pp. 509-511 (October 5, 1972).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NM	AA44	5,841,811	11/1998	Song	375	235	
	AB44	4,051,475	09/1977	Campbell	343	180	
	AC44	5,953,642	09/1999	Feldtkeller et al.	455	195.1	
	AD44	4,653,117	03/1987	Heck	455	209	
	AE44	5,859,878	01/1999	Phillips et al.	375	316	
	AF44	5,894,496	06/1999	Jones	455	126	
	AG44	5,915,278	06/1999	Mallick	73	658	
	AH44	6,028,887	02/2000	Harrison et al.	375	206	06/26/1997
	AI44	6,081,691	06/2000	Renard et al.	455	12.1	04/14/1998

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ44						Yes No
	AK44						Yes No
	AL44						Yes No
	AM44						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	44	Vilar, E. et al., "An experimental mm-wave receiver system for measuring phase noise due to atmospheric turbulence," <i>Proceedings of the 25th European Microwave Conference</i> , Nexus House, pp. 114-119 (1995).
	AO	44	Vilar, E. and Burgueño, A., "Analysis and Modeling of Time Intervals Between Rain Rate Exceedances in the Context of Fade Dynamics," <i>IEEE Transactions on Communications</i> , IEEE Communications Society, Vol. 39, No. 9, pp. 1306-1312 (September 1991).
	AP	44	Vilar, E. et al., "Angle of Arrival Fluctuations in High and Low Elevation Earth Space Paths," <i>Fourth International Conference on Antennas and Propagation (ICAP 85)</i> , Electronics Division of the IEE, pp. 83-88 (April 16-19, 1985).
	AQ	44	Vilar, E., "Antennas and Propagation: A Telecommunications Systems Subject," <i>Electronics Division Colloquium on Teaching Antennas and Propagation to Undergraduates</i> , IEE, pp. 7/1-7/6 (March 8, 1988).
	AR	44	Vilar, E. et al., "CERS*. Millimetre-Wave Beacon Package and Related Payload Doppler Correction Strategies," <i>Electronics Division Colloquium on CERS- Communications Engineering Research Satellite</i> , IEE, pp. 10/1-10/10 (April 10, 1984).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA45	6,121,819	09/2000	Traylor	327	359	04/06/1998
	AB45	6,144,236	11/2000	Vice et al.	327	113	02/01/1998
	AC45	6,144,846	11/2000	Durec	455	323	12/31/1997
	AD45	6,175,728 B1	01/2001	Mitama	455	323	03/03/1998
	AE45	5,705,949	01/1998	Alelyunas et al.	329	304	
	AF45	5,883,548	03/1999	Assard et al.	329	306	
	AG45	4,484,143	11/1984	French et al.	329	50	
	AH45	5,841,324	11/1998	Williams	331	17	
	AI45	4,855,894	08/1989	Asahi et al.	363	157	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ45						Yes No
	AK45						Yes No
	AL45						Yes No
	AM45						Yes No

RECEIVED
JAN 14 2002
Technology Center 2600

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	45	Vilar, E. and Mouldsley, T.J., "Comment and Reply: Probability Density Function of Amplitude Scintillations," <i>Electronics Letters</i> , IEE, Vol. 21, No. 14, pp. 620-622 (July 4, 1985).
	AO	45	Vilar, E. et al., "Comparison of Rainfall Rate Duration Distributions for ILE-IFE and Barcelona," <i>Electronics Letters</i> , IEE, Vol. 28, No. 20, pp. 1922-1924 (September 24, 1992).
	AP	45	Vilar, E., "Depolarization and Field Transmittances in Indoor Communications," <i>Electronics Letters</i> , IEE, Vol. 27, No. 9, pp. 732-733 (April 25, 1991).
	AQ	45	Vilar, E. and Larsen, J.R., "Elevation Dependence of Amplitude Scintillations on Low Elevation Earth Space Paths," <i>Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation</i> , IEE, pp. 150-154 (April 4-7, 1989).
	AR	45	Vilar, E. et al., "Experimental System and Measurements of Transhorizon Signal Levels at 11 Ghz," <i>18th European Microwave Conference, Microwave Exhibitions and Publishers Ltd.</i> , pp. 429-435 (September 12 - 15, 1988).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

JAN 11 2002

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Nm	AA46	5,319,799	06/1994	Morita	455	78	
	AB46	5,801,654	09/1998	Traylor	341	144	
	AC46	5,369,404	11/1994	Galton	341	143	
	AD46	3,716,730	02/1973	Cerny, Jr.	307	295	
	AE46	4,080,573	03/1978	Howell	325	439	
	AF46	4,334,324	06/1982	Hoover	455	333	
	AG46	4,369,522	01/1983	Cerny, Jr. et al.	455	333	
	AH46	5,465,418	11/1995	Zhou et al.	455	332	
	AI46	5,513,389	04/1996	Reeser et al.	455	311	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ46						Yes No
	AK46						Yes No
	AL46						Yes No
	AM46						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Nm	AN	46	Vilar, E. and Matthews, P.A., "Importance of Amplitude Scintillations in Millimetric Radio Links," <i>Proceedings of the 4th European Microwave Conference, Microwave Exhibitions and Publishers</i> , pp. 202-206 (September 10-13, 1974).
Wm	AO	46	Vilar, E. and Haddon, J., "Measurement and Modeling of Scintillation Intensity to Estimate Turbulence Parameters in an Earth-Space Path," <i>IEEE Transactions on Antennas and Propagation, IEEE Antennas and Propagation Society</i> , Vol. AP-32, No. 4, pp. 340-346 (April 1984).
Wm	AP	46	Vilar, E. and Matthews, P.A., "Measurement of Phase Fluctuations on Millimetric Radiowave Propagation," <i>Electronics Letters, IEE</i> , Vol. 7, No. 18, pp. 566-568 (September 9, 1971).
Wm	AQ	46	Vilar, E. and Wan, K.W., "Narrow and Wide Band Estimates of Field Strength for Indoor Communications in the Millimetre Band," <i>Electronics Division Colloquium on Radiocommunications in the Range 30-60 Ghz, IEE</i> , pp. 5/1-5/8 (January 17, 1991).
Nm	AR	46	Vilar, E. and Faulkner, N.D., "Phase Noise and Frequency Stability Measurements. Numerical Techniques and Limitations," <i>Electronics Division Colloquium on Low Noise Oscillators and Synthesizer, IEE</i> , 5 pages (January 23, 1986).

EXAMINER

DATE CONSIDERED

02/05/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AM	AA47	5,959,850	09/1999	Lim	363	17	
	AB47						
	AC47						
	AD47						
	AE47						
	AF47						
	AG47						
	AH47						
	AI47						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ47						Yes No
	AK47						Yes No
	AL47						Yes No
	AM47						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AM	AN	47	Vilar, E. and Senin, S., "Propagation phase noise identified using 40 Ghz satellite downlink," <i>Electronics Letters</i> , IEE, Vol. 33, No. 22, pp. 1901-1902 (October 23, 1997).
	AO	47	Vilar, E. et al., "Scattering and Extinction: Dependence Upon Raindrop Size Distribution in Temperate (Barcelona) and Tropical (Belem) Regions," <i>Tenth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 2.230-2.233 (April 14-17, 1997).
	AP	47	Vilar, E. and Haddon, J., "Scintillation Modeling and Measurement - A Tool for Remote-Sensing Slant Paths," <i>AGARD Conference Proceedings No. 332: Propagation Aspects of Frequency Sharing, Interference And System Diversity</i> , AGARD, pp. 27-1 - 27-13 (October 18-22, 1982).
	AQ	47	Vilar, E., "Some Limitations on Digital Transmission Through Turbulent Atmosphere," <i>International Conference on Satellite Communication Systems Technology</i> , Electronics Division of the IEE, pp. 169-187 (April 7-10, 1975).
	AR	47	Vilar, E. and Matthews, P.A., "Summary of Scintillation Observations in a 36 Ghz Link Across London," <i>International Conference on Antennas and Propagation Part 2: Propagation</i> , IEE, pp. 36-40 (November 28-30, 1978).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NM ↓		AA48					
		AB48					
		AC48					
		AD48					
		AE48					
		AF48					
		AG48					
		AH48					
		AI48					

RECEIVED
JAN 14 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
		AJ48					Yes No
		AK48					Yes No
		AL48					Yes No
		AM48					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM ↓	AN	48	Vilar, E. et al., "Wideband Characterization of Scattering Channels," <i>Tenth International Conference on Antennas and Propagation</i> , Electronics Division of the IEE, pp. 2.353-2.358 (April 14-17, 1997).
	AO	48	Vollmer, A., "Complete GPS Receiver Fits on Two Chips," <i>Electronic Design</i> , Penton Publishing, pp. 50, 52, 54 and 56 (July 6, 1998).
	AP	48	Voltage and Time Resolution in Digitizing Oscilloscopes: Application Note 348, Hewlett Packard, pp. 1-11 (November 1986).
	AQ	48	Wan, K.W. et al., "A Novel Approach to the Simultaneous Measurement of Phase and Amplitude Noises in Oscillator," <i>Proceedings of the 19th European Microwave Conference</i> , Microwave Exhibitions and Publishers Ltd., pp. 809-813 (September 4-7, 1989).
	AR	48	Wan, K.W. et al., "Extended Variances and Autoregressive/Moving Average Algorithm for the Measurement and Synthesis of Oscillator Phase Noise," <i>Proceedings Of the 43rd Annual Symposium on Frequency Control</i> , IEEE, pp. 331-335 (1989).

EXAMINER W. M. [Signature]	DATE CONSIDERED 02/10/02
-------------------------------	-----------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA49						
	AB49						
	AC49						
	AD49						
	AE49						
	AF49						
	AG49						
	AH49						
	AI49						

RECEIVED
JAN 14 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ49						Yes No
	AK49						Yes No
	AL49						Yes No
	AM49						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	49	Wan, K.W. et al., "Wideband Transhorizon Channel Sounder at 11 Ghz," <i>Electronics Division Colloquium on High Bit Rate UHF/SHF Channel Sounders - Technology and Measurement</i> , IEE, pp. 3/1-3/5 (December 3, 1993).
	AO	49	Wang, H., "A 1-V Multigigahertz RF Mixer Core in 0.5 - μ m CMOS," <i>IEEE Journal of Solid-State Circuits</i> , IEEE Solid-State Circuits Society, Vol. 33, No. 12, pp. 2265-2267 (December 1998).
	AP	49	Watson, A.W.D. et al., "Digital Conversion and Signal Processing for High Performance Communications Receivers," <i>Digital Processing of Signals in Communications</i> , Institution of Electronic and Radio Engineers, pp. 367-373 (April 22nd -26th, 1985).
	AQ	49	Weast, R.C. et al. (Ed.), <i>Handbook of Mathematical Tables</i> , Second Edition, The Chemical Rubber Co., pp. 480-485 (1964).
	AR	49	Wiley, R.G., "Approximate FM Demodulation Using Zero Crossings," <i>IEEE Transactions on Communications</i> , IEEE, Vol. COM-29, No. 7, pp. 1061-1065 (July 1981).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA50						
	AB50						
	AC50						
	AD50						
	AE50						
	AF50						
	AG50						
	AH50						
	AI50						

RECEIVED
JAN 14 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ50						Yes No
	AK50						Yes No
	AL50						Yes No
	AM50						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	<u>50</u>	Worthman, W., "Convergence... Again," <i>RF Design</i> , Primedia, p. 102 (March 1999).
	AO	<u>50</u>	Young, I.A. and Hodges, D.A., "MOS Switched-Capacitor Analog Sampled-Data Direct-Form Recursive Filters," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. SC-14, No. 6, pp. 1020-1033 (December 1979).
	AP	<u>50</u>	Translation of Specification and Claims of FR Patent No. 2245130, 3 pages.
	AQ	<u>50</u>	Fest, Jean-Pierre, "Le Convertisseur A/N Revolutionne Le Recepteur Radio," <i>Electronique</i> , JMJ (Publisher), No. 54, pp. 40-42 (December 1995).
	AR	<u>50</u>	Translation of DE Patent No. 35 41 031 A1, 22 pages.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA51						
	AB51						
	AC51						
	AD51						
	AE51						
	AF51						
	AG51						
	AH51						
	AI51						

RECEIVED
JAN 14 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ51						Yes No
	AK51						Yes No
	AL51						Yes No
	AM51						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Nm	AN	51	Translation of EP Patent No. 0 732 803 A1, 9 pages.
	AO	51	Fest, Jean-Pierre, "The A/D Converter Revolutionizes the Radio Receiver," <i>Electronique</i> , JMJ (Publisher), No. 54, 3 pages (December 1995). (Translation of Doc. AQ50).
	AP	51	Translation of German Patent No. DE 197 35 798 C1, 8 pages.
	AQ	51	Miki, S. and Nagahama, R., <i>Modulation System II</i> , Common Edition 7, Kyoritsu Publishing Co., Ltd., pp. 146-154 (April 30, 1956).
	AR	51	Miki, S. and Nagahama, R., <i>Modulation System II</i> , Common Edition 7, Kyoritsu Publishing Co., Ltd., pp. 146-149 (April 30, 1956). (Partial Translation of Doc. AQ51).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

JAN 11 2002

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA52					
	AB52					
	AC52					
	AD52					
	AE52					
	AF52					
	AG52					
	AH52					
	AI52					

RECEIVED
JAN 14 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ52					Yes No
	AK52					Yes No
	AL52					Yes No
	AM52					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AN	52	Rabiner, L.R. and Gold, B., <i>Theory And Application Of Digital Signal Processing</i> , Prentice-Hall, Inc., pp. xiii-xii and 40-46 (1975).
AO	52	English-language Abstract of JP 08-032556, published February 2, 1996, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited December 14, 2001).
AP	52	English-language Abstract of JP 08-139524, published May 31, 1996, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited December 14, 2001).
AQ	52	English-language Abstract of JP 59-144249, published August 18, 1984, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited January 2, 2002).
AR	52	English-language Abstract of JP 63-054002, published March 8, 1988, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited January 2, 2002).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

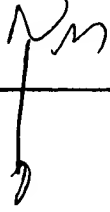

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA53						
	AB53						
	AC53						
	AD53						
	AE53						
	AF53						
	AG53						
	AH53						
	AI53						

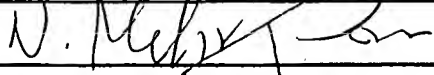
RECEIVED
JAN 14 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

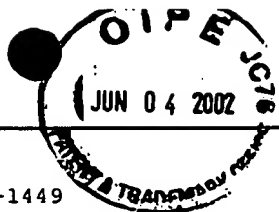
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ53						Yes No
	AK53						Yes No
	AL53						Yes No
	AM53						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	53	English-language Abstract of JP 06-237276, published August 23, 1994, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited January 2, 2002).
	AO	53	English-language Abstract of JP 08-023359, published January 23, 1996, from http://www1.ipdl.jpo.go.jp , 2 Pages (last visited January 2, 2002).
	AP	53	
	AQ	53	
	AR	53	

EXAMINER DATE CONSIDERED
12/18/01

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682RECEIVED
JUN 07 2002
Technology Center 2600

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AB47	5,157,687	10/1992	Tymes	375	1	
NM	AC47	5,945,660	08/1999	Nakasui et al.	235	462.46	
NM	AD47	6,091,939	07/2000	Banh	455	102	
NM	AE47	6,091,941	07/2000	Moriyama et al.	455	126	
NM	AF47	6,098,886	08/2000	Swift et al.	235	472.01	
NM	AG47	6,215,475 B1	04/2001	Meyerson et al.	345	173	
NM	AH47	6,049,706	04/2000	Cook et al.	455	313	
NM	AI47	6,061,551	05/2000	Sorrells et al.	455	118	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AL15	JP 47-2314	02/1972	JP	---	---	No
NM	AM15	JP 58-7903	01/1983	JP	H03C	1/02	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

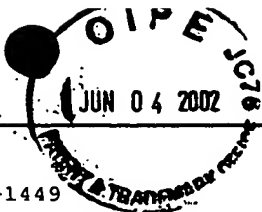
NM	AP	53	Partial Translation of Japanese Patent Publication No. 47-2314, 3 pages.
NM	AQ	53	Partial Translation of Japanese Patent Publication No. 58-7903, 3 pages.
NM	AR	53	English-language Abstract of Japanese Patent Publication No. 58-133004, from http://www1.ipdl.jpo.go.jp , 2 Pages (August 8, 1993 - Date of publication of application).

EXAMINER

DATE CONSIDERED

7/19/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA48	6,061,555	05/2000	Bultman et al.	455	313	
NM	AB48	6,091,940	07/2000	Sorrells et al.	455	118	
NM	AC48	6,266,518 B1	07/2001	Sorrells et al.	455	118	
NM	AD48	6,353,735 B1	03/2002	Sorrells et al.	455	118	
NM	AE48	6,370,371 B1	04/2002	Sorrells et al.	455	323	
NM	AF48	5,628,055	05/1997	Stein	455	89	
NM	AG48	5,678,220	10/1997	Fournier	455	302	
NM	AH48	5,926,065	07/1999	Wakai et al.	329	304	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ16	JP 58-133004	08/1983	JP	H03D	1/00	No
NM	AK16	JP 60-58705	04/1985	JP	H03D	7/00	No
NM	AL16	JP 4-123614	04/1992	JP	H03K	19/0175	No
NM	AM16	JP 4-127601	04/1992	JP	H03D	7/00	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	54	English-language Abstract of Japanese Patent Publication No. 60-058705, from http://www1.ipdl.jpo.go.jp , 1 Page (April 4, 1985 - Date of publication of application).
NM	AO	54	English-language Abstract of Japanese Patent Publication No. 04-123614, from http://www1.ipdl.jpo.go.jp , 1 Page (April 23, 1992 - Date of publication of application).
NM	AP	54	English-language Abstract of Japanese Patent Publication No. 04-127601, from http://www1.ipdl.jpo.go.jp , 1 Page (April 28, 1992 - Date of publication of application).
NM	AQ	54	English-language Abstract of Japanese Patent Publication No. 05-175730, from http://www1.ipdl.jpo.go.jp , 1 Page (July 13, 1993 - Date of publication of application).
NM	AR	54	English-language Abstract of Japanese Patent Publication No. 05-175734, from http://www1.ipdl.jpo.go.jp , 1 Page (July 13, 1993 - Date of publication of application).

EXAMINER

N. Mohrman

DATE CONSIDERED

7/19/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<p>FORM PTO-1449</p> <p><u>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u></p>	<p>ATTY. DOCKET NO. 1744.0250001</p> <p>APPLICANT Sorrells et al.</p> <p>FILING DATE January 3, 2000</p>	<p>APPLICATION NO. 09/476,092</p> <p>GROUP 2682</p>
--	--	---

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ17	JP 5-175730	07/1993	JP	H03D	1/00	No
NM	AK17	JP 5-175734	07/1993	JP	H03D	3/00	No
NM	AL17	JP 7-154344	06/1995	JP	H04B	14/06	No
NM	AM17	JP 7-307620	11/1995	JP	H03D	1/18	No

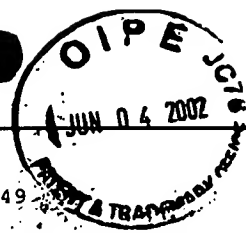
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Nm	AN	<u>55</u>	English-language Abstract of Japanese Patent Publication No. 07-154344, from http://www1.ipdl.jpo.go.jp , 2 Pages (June 16, 1995 - Date of publication of application).
Nm	AO	<u>55</u>	English-language Abstract of Japanese Patent Publication No. 07-307620, from http://www1.ipdl.jpo.go.jp , 1 Page (November 21, 1995 - Date of publication of application).
Nm	AP	<u>55</u>	Oppenheim, A.V. and Schafer, R.W., <i>Digital Signal Processing</i> , Prentice-Hall, pp. vii-x, 6-35, 45-78, 87-121 and 136-165 (1975).
Nm	AQ	<u>55</u>	English-language Abstract of Japanese Patent Publication No. 55-066057, from http://www1.ipdl.jpo.go.jp , 1 Page (May 19, 1980 - Date of publication of application).
Nm	AR	<u>55</u>	English-language Abstract of Japanese Patent Publication No. 63-065587, from http://www1.ipdl.jpo.go.jp , 1 Page (March 24, 1988 - Date of publication of application).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001

APPLICATION NO.
09/476,092

APPLICANT
Sorrells et al.

FILING DATE
January 3, 2000

GROUP
2682

RECEIVED
JUN 07 2002
Technology Center 2000

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
NM	AJ18	JP 55-66057	05/1980	JP	G06K	7/10	No
NM	AK18	JP 63-65587	03/1988	JP	G06K	7/10	No
NM	AL18	JP 63-153691	06/1988	JP	G06K	17/00	No
NM	AM18	EP 0 276 130 A2&A3	07/1988	EP	H03D	7/00	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	56	English-language Abstract of Japanese Patent Publication No. 63-153691, from http://www1.ipdl.jpo.go.jp , 1 Page (June 27, 1988 - Date of publication of application).

EXAMINER

W. M. ...

DATE CONSIDERED

7, 19, 02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0250001	APPLICATION NO. 09/476,092
APPLICANT Sorrells et al.	
FILING DATE January 3, 2000	GROUP 2682

RECEIVED
JUN 07 2002
Technology Center 2600E

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
Nm	AJ19	WO 95/01006 A1	01/1995	PCT	H03M	1/66	N/A
Nm	AK19	WO 97/08839 A2&A3	03/1997	PCT	H04B	1/04	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER <i>N Mehrotra</i>	DATE CONSIDERED <i>9,19,02</i>
-------------------------------	-----------------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2685

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AI48	3,622,885	11/1971	Oberdorf et al.			

RECEIVED
DEC 26 2002
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
NM	AL19	EP 0 254 844 A2	02/1988	EP	H03D	7/00	N/A
	AM19	EP 0 632 577 A1	01/1995	EP	H03D	7/16	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AO	56	Translation of Japanese Patent Publication No. JP 60-130203, 3 pages.
	AP	56	Razavi, B., "A 900-MHz/1.8-GHz CMOS Transmitter for Dual-Band Applications, <i>Symposium on VLSI Circuits Digest of Technical Papers</i> , IEEE, pp. 128-131 (1998).
	AQ	56	Ritter, G.M., "SDA, A New Solution for Transceivers," <i>16th European Microwave Conference</i> , Microwave Exhibitions and Publishers, pp. 729-733 (September 8, 1986).
	AR	56	DIALOG File 351 (Derwent WPI) English Language Patent Abstract for FR 2 669 787, 1 page (May 29, 1992- Date of publication of application).

EXAMINER

DATE CONSIDERED

3/26/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0250001	APPLICATION NO. 09/476,092
APPLICANT Sorrells et al.	
FILING DATE January 3, 2000	GROUP 2685

RECEIVED
DEC 26 2002
Technology Center 2600

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA49	4,483,017	11/1984	Hampel et al.			
	AB49	6,421,534 B1	07/2002	Cook et al.			08/18/1999
	AC49	6,330,244 B1	12/2001	Swartz et al.			01/16/1998
	AD49	5,633,815	05/1997	Young			
	AE49	3,246,084	04/1966	Kryter			
	AF49	09/476,091		Sorrells et al.			01/03/2000
	AG49	09/476,093		Sorrells et al.			01/03/2000

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ20	JP 60-130203	07/1985	JP	H03D	7/00	No
	AK20	DE 196 27 640 A1	01/1997	DE	H03D	7/12	No
	AL20	EP 0 087 336 A1	08/1983	EP	H03D	7/12	No
	AM20	EP 0 087 336 B1	07/1986	EP	H03D	7/12	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM ↓ V	AN	<u>57</u>	Akos, D.M. <i>et al.</i> , "Direct Bandpass Sampling of Multiple Distinct RF Signals," <i>IEEE Transactions on Communications</i> , IEEE, Vol. 47, No. 7, pp. 983-988 (July 1999).
	AO	<u>57</u>	Patel, M. <i>et al.</i> , "Bandpass Sampling for Software Radio Receivers, and the Effect of Oversampling on Aperture Jitter," <i>VTC 2002</i> , IEEE, pp. 1901-1905 (2002).
	AP	<u>57</u>	English-language Abstract of Japanese Patent Publication No. 61-030821, 1 Page (February 13, 1986- Date of publication of application).
	AQ	<u>57</u>	English-language Abstract of Japanese Patent Publication No. 05-327356, 1 Page (December 10, 1993 - Date of publication of application).

EXAMINER 	DATE CONSIDERED 5/26/02
--------------	----------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2685**RECEIVED**
DEC 26 2002
Technology Center 2000**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

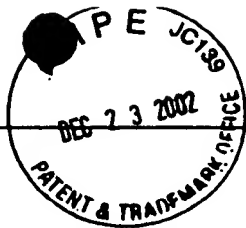
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
Nm	AJ21	EP 0 789 449 A2	08/1997	EP	H03D	7/12	N/A
	AK21	FR 2 669 787 A1	05/1992	FR	H03D	7/14	No
	AL21	GB 2 324 919 A	11/1998	GB	H03D	7/18	N/A
b	AM21	JP 61-30821	02/1986	JP	H04B	1/10	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2685RECEIVED
DEC 26 2002
Technology Center 2600

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
NM	AJ22	JP 5-327356	12/1993	JP	H03D	7/00	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

3/26/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001

APPLICATION NO.
09/476,092

APPLICANT
Sorrells et al.

FILING DATE
January 3, 2000

**GROUP
2683**

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
N/y	AH49	3,702,440	11/1972	Moore			
	AI49	3,767,984	10/1973	Shinoda et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
—							
NM	AK22	EP 0 643 477 A2 & A3	03/1995	EP	H03D	7/16	N/A
NM	AL22	EP 0 877 476 A1	11/1998	EP	H03D	7/16	N/A
NM	AM22	EP 0 977 351 A1	02/2000	EP	H03D	7/16	N/A

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

N _m	AR	<u>57</u>	Taylor, D., "A Low noise, High-performance Zero IF Quadrature Detector/Preamplifier," <i>RF Design</i> , Primedia Business Magazines & Media, Inc., pp. 58, 60, 62 and 69 (March 2003).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

\\ODMA\MHODMA\SKGF DC1;153912;1



FORM PTO-1449

**THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2683**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
UM	AA50	3,852,530	12/1974	Shen			
9	AB50	4,220,977	09/1980	Yamanaka			
	AC50	5,016,242	05/1991	Tang			
	AD50	5,937,013	08/1999	Lam et al.			
	AE50	6,014,551	01/2000	Pesola et al.			07/16/1997
	AF50	6,073,001	06/2000	Sokoler			05/08/1998
	AG50	6,085,073	07/2000	Palermo et al.			03/02/1998
	AH50	6,400,963 B1	06/2002	Glöckler et al.			05/21/1999
	AI50	6,230,000 B1	05/2001	Taylor			10/15/1998

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ23	WO 00/31659 A1	06/2000	PCT			N/A

RECEIVED

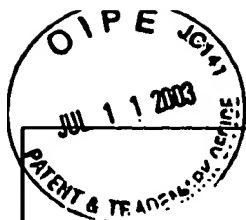
JUL 16 2003

Technology Center 2600

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	<u>58</u>	Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996).
	AO	<u>58</u>	Simoni, A. et al., "A Digital Camera for Machine Vision," <i>20th International Conference on Industrial Electronics, Control and Instrumentation</i> , IEEE, pp. 879-883 (September 1994).
	AP	<u>58</u>	Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," <i>Electronics & Communication Engineering Journal</i> , IEEE, pp. 37-47 (February 1998).
	AQ	<u>58</u>	Rudell, J.C. et al., "A 1.9-Ghz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 32, No. 12, pp. 2071-2088 (December 1997).
EXAMINER			DATE CONSIDERED 1998

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

**THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2683**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
✓	AA51	6,542,722 B1	04/2003	Sorrells et al.			04/16/1999
	AB51	6,560,301 B1	05/2003	Cook et al.			04/16/1999
	AC51	6,098,046	08/2000	Cooper et al.			06/29/1998
	AD51	5,410,326	04/1995	Goldstein			
	AE51	5,956,025	09/1999	Goulden et al.			
	AF51	6,127,941	10/2000	Van Ryzin			02/03/1998
	AG51	5,564,097	10/1996	Swanke			
	AH51	5,898,912	04/1999	Heck et al.			
	AI51	4,660,164	04/1987	Leibowitz			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RECEIVED

JUL 16 2003

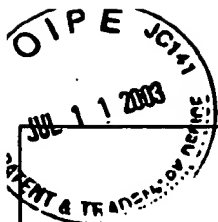
Technology Center 2600

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

::ODMAIMHODMAISKGF_DC1;153912;1



FORM PTO-1449

**THIRD SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2683**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
Am	AA52	6,580,902 B1	06/2003	Sorrells et al.			04/16/1999
	AB52	4,857,928	08/1989	Gailus et al.			
	AC52	5,389,839	02/1995	Heck			
	AD52	5,471,665	11/1995	Pace et al.			
↓	AE52	6,327,313 B1	12/2001	Traylor et al.			12/29/1999

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RECEIVED

JUL 16 2003

Technology Center 2600

EXAMINER

DATE CONSIDERED

7/9/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

::ODMAMHODMAISKGF_DC1;153912;1

FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASSES	FILING DATE
AJ		AF52	05/1998	Tsugai	—	—	
		AG52	08/1998	Wilson	—	—	
		AH52	05/2001	Tilley et al.	—	—	
		AI52	11/2001	Rabii	—	—	

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
NM	AK23	JP 9-36664	02/1997	JP	—	—	No

	AR	<u>58</u>	English-language abstract for Japanese Patent Application Publication Number. JP 09-036664, from http://www19.ipdl.jpo.go.jp , 2 pages (Date of publication of application - February 7, 1997).

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001

APPLICATION NO.
09/476,092

APPLICANT
Sorrells et al.

FILING DATE
January 3, 2000

GROUP
2683

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NM	AA53	3,614,627	10/1971	Runyan et al.			
	AB53	3,940,697	02/1976	Morgan			
	AC53	4,016,366	04/1977	Kurata			
	AD53	4,045,740	08/1977	Baker			
	AE53	4,115,737	09/1978	Hongu et al.			
	AF53	5,710,992	01/1998	Sawada et al.			
	AG53	5,790,587	08/1998	Smith et al.			
	AH53	4,740,675	04/1988	Brosnan et al.			
	AI53	5,483,600	01/1996	Werrbach			

FOREIGN PATENT DOCUMENTS

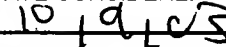
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER



DATE CONSIDERED



EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

FOURTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092APPLICANT
Sorrells et al.FILING DATE
January 3, 2000GROUP
2683

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
nm ↓	AA54	6,011,435	01/2000	Takeyabu et al.	—	—	
	AB54	6,321,073 B1	11/2001	Luz et al.	—	—	

RECEIVED

SEP 08 2003

Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference/considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AA	AA						
	AB						
NM	AC54	6,026,286	02/2000	Long	—	—	
	AD54	6,178,319 B1	01/2001	Kashima	—	—	
	AE54	6,634,555 B1	10/2003	Sorrells <i>et al.</i>	—	—	
	AF54	3,736,513	05/1973	Wilson	—	—	
	AG54	4,488,119	12/1984	Marshall	—	—	
	AH54	4,633,510	12/1986	Suzuki <i>et al.</i>	—	—	
	AI54	5,369,789	11/1994	Kosugi <i>et al.</i>	—	—	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
NM	AL23	DE 196 48 915 A1	06/1998	DE	—	—	Yes (Doc. AO59)
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

NM	AN	59	Simoni, A. <i>et al.</i> . "A Single-Chip Optical Sensor with Analog Memory for Motion Detection," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 30, No. 7, pp. 800-806 (July 1995).
NM	AO	59	English Translation of German Patent Publication No. DE 196 48 915 A1, 10 pages.
	AP		
	AQ		
	AR		

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

MAR 24 2004



Page 2 of 3

FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AM	AA55	5,416,449	05/1995	Joshi	—	—	
	AB55	5,438,329	08/1995	Gastouniotis <i>et al.</i>	—	—	
	AC55	6,611,569 B1	08/2003	Schier <i>et al.</i>	—	—	
	AD55	6,647,250 B1	11/2003	Bultman <i>et al.</i>	—	—	
	AE55	5,682,099	10/1997	Thompson <i>et al.</i>	—	—	
	AF55	6,094,084	07/2000	Abou-Allam <i>et al.</i>	—	—	
	AG55	6,067,329	05/2000	Kato <i>et al.</i>	—	—	
	AH55	6,516,185 B1	02/2003	MacNally	—	—	
	AI55	6,608,647 B1	08/2003	King	—	—	

RECEIVED
MAR 29 2004
Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR		

EXAMINER

N. M. H. P. M.

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
d/m	AA56	6,687,493 B1	02/2004	Sorrells <i>et al.</i>	—	—	
	AB56	6,694,128 B1	02/2004	Sorrells <i>et al.</i>	—	—	
	AC56	6,031,217	02/2000	Aswell <i>et al.</i>	—	—	
	AD56	5,955,992	09/1999	Shattil	—	—	
	AE56	5,999,561	12/1999	Naden <i>et al.</i>	—	—	
	AF56	6,686,879 B2	02/2004	Shattil	—	—	
	AG56	6,704,549 B1	03/2004	Sorrells <i>et al.</i>	—	—	
g	AH56	6,704,558 B1	03/2004	Sorrells <i>et al.</i>	—	—	
	AI						

RECEIVED

MAR 29 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

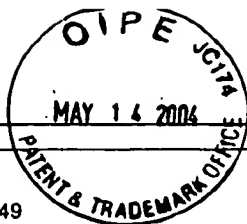
	AN		
	AO		
	AP		
	AQ		
	AR		

EXAMINER

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

INVENTORS

SORRELLS *et al.*

FILING DATE

January 3, 2000

ART UNIT

2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
NM	AI56	5,490,176	02/1996	Peltier	—	—	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR		

RECEIVED

MAY 18 2004

Technology Center 2600

EXAMINER

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

INVENTORS

SORRELLS *et al.*

FILING DATE

January 3, 2000

ART UNIT

2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>K/M</i>	AA57	5,970,053	10/1999	Schlick <i>et al.</i>	—	—	
	AB57	6,078,630	06/2000	Prasanna	—	—	
	AC57	6,600,911 B1	07/2003	Morishige <i>et al.</i>	—	—	
	AD57	5,179,731	01/1993	Tränkle <i>et al.</i>	—	—	
	AE57	5,589,793	12/1996	Kassapian	—	—	
	AF57	4,510,467	04/1985	Chang <i>et al.</i>	—	—	
	AG57	4,772,853	09/1988	Hart	—	—	
	AH57	4,972,436	11/1990	Halim <i>et al.</i>	—	—	
	AI57	5,012,245	04/1991	Scott <i>et al.</i>	—	—	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR		

RECEIVED

MAY 18 2004

Technology Center 2600

EXAMINER

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

INVENTORS

SORRELLS *et al.*

FILING DATE

January 3, 2000

ART UNIT

2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA58	5,422,909	06/1995	Love <i>et al.</i>	—	—	
	AB58	5,440,311	08/1995	Gallagher <i>et al.</i>	—	—	
	AC58	5,926,513	07/1999	Suominen <i>et al.</i>	—	—	
	AD58	5,995,030	11/1999	Cabler	—	—	
	AE58	6,047,026	04/2000	Chao <i>et al.</i>	—	—	
	AF58	6,049,573	04/2000	Song	—	—	
	AG58	6,076,015	06/2000	Hartley <i>et al.</i>	—	—	
	AH58	6,144,331	11/2000	Jiang	—	—	
	AI58	6,018,553	01/2000	Sanielevici <i>et al.</i>	—	—	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes
							No
	AK						Yes
							No
	AL						Yes
							No
	AM						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR		

RECEIVED

MAY 18 2004

Technology Center 2600

EXAMINER

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AM	AA59	6,317,589 B1	11/2001	Nash	—	—	
	AB59	5,058,107	10/1991	Stone <i>et al.</i>	—	—	
	AC59	5,757,858	05/1998	Black <i>et al.</i>	—	—	
	AD59	6,531,979 B1	03/2003	Hynes	—	—	
	AE59	6,018,262	01/2000	Noro <i>et al.</i>	—	—	
	AF59	4,761,798	08/1988	Griswold, Jr. <i>et al.</i>	—	—	
	AG59	5,982,315	11/1999	Bazarjani <i>et al.</i>	—	—	
	AH59	6,459,721 B1	10/2002	Mochizuki <i>et al.</i>	—	—	
	AI59	6,151,354	11/2000	Abbey	—	—	

RECEIVED

MAY 18 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

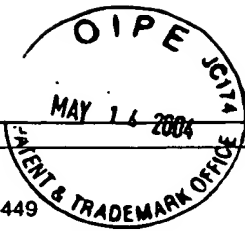
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR		

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
SORRELLS *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA60	6,169,733 B1	01/2001	Lee	—	—	
	AB60	6,363,262 B1	03/2002	McNicol	—	—	
	AC60	6,697,603 B1	02/2004	Lovinggood <i>et al.</i>	—	—	
	AD60	5,282,222	01/1994	Fattouche <i>et al.</i>	—	—	
	AE60	5,949,827	09/1999	DeLuca <i>et al.</i>	—	—	
	AF60	6,014,176	01/2000	Nayebi <i>et al.</i>			
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR		

RECEIVED

MAY 18 2004

Technology Center 2600

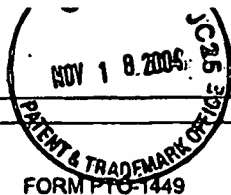
EXAMINER

d. M. Power

DATE CONSIDERED

6/8/04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

SEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

INVENTORS

Sorrells et al.

FILING DATE

January 3, 2000

ART UNIT

2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
NM	AG60	5,678,226	10/1997	Li et al.			
	AH60	5,760,632	06/1998	Kawakami et al.			
	AI60	6,160,280	12/2000	Bonn et al.			

RECEIVED

NOV 24 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

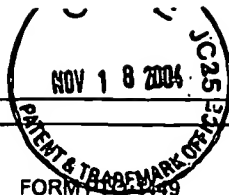
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AN			
	AO			
NM	AP	59	Deboo, Gordon J., <i>Integrated Circuits and Semiconductor Devices</i> , 2 nd Edition, McGraw-Hill, Inc., pp. 41-45 (1977).	
	AQ			
	AR			

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

SEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
Sorrells et al.FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA61	5,481,570	01/1996	Winters			
	AB61	5,745,846	04/1998	Myer et al.			
	AC61	5,345,239	09/1994	Madni et al.			
	AD61	4,132,952	01/1979	Hongu et al.			
	AE61	5,260,973	11/1993	Watanabe			
	AF61	6,307,894 B2	10/2001	Eidson et al.			
	AG61	6,091,289	07/2000	Song et al.			
	AH61	6,437,639 B1	08/2002	Nguyen et al.			
	AI61	2002/0037706 A1	03/2002	Ichihara			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

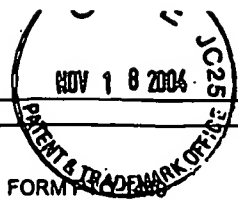
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR		

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

SEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092INVENTORS
Sorrells *et al.*FILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA62	4,441,080	04/1984	Saari	—	—	—
	AB62	4,873,492	10/1989	Myer	—	—	—
	AC62	5,697,074	12/1997	Makikallio <i>et al.</i>	—	—	—
	AD62	5,784,689	07/1998	Kobayashi	—	—	—
	AE62	6,335,656 B1	01/2002	Goldfarb <i>et al.</i>	—	—	—
	AF62	6,690,232 B2	02/2004	Ueno <i>et al.</i>	—	—	—
	AG62	5,636,140	06/1997	Lee <i>et al.</i>	—	—	—
	AH62	6,366,622 B1	04/2002	Brown <i>et al.</i>	—	—	—
	AI62	6,600,795 B1	07/2003	Ohta <i>et al.</i>	—	—	—

RECEIVED

NOV 24 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR		

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

NOV 18 2004

Page 4 of 5

FORM PTO-1449

SEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

INVENTORS

Sorrells *et al.*

FILING DATE

January 3, 2000

ART UNIT

2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
AM	AA63	4,250,458	02/1981	Richmond <i>et al.</i>			
	AB63	5,760,629	06/1998	Urabe <i>et al.</i>			
	AC63	6,084,465	07/2000	Dasgupta			
	AD63	6,204,789 B1	03/2001	Nagata			
	AE63	6,064,054	05/2000	Waczynski <i>et al.</i>			
	AF63	5,218,562	06/1993	Basehore <i>et al.</i>			
	AG63	5,239,496	08/1993	Vancraeynest			
	AH63	5,896,304	04/1999	Tiemann <i>et al.</i>			
	AI63	6,005,903	12/1999	Mendelovicz			

RECEIVED

NOV 24 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

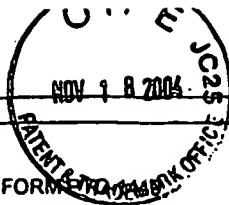
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR		

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

SEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

INVENTORS

Sorrells *et al.*

FILING DATE

January 3, 2000

ART UNIT

2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
Nm	AA64	5,834,979	11/1998	Yatsuka	—	—	—
↓	AB64	6,798,351 B1	09/2004	Sorrells <i>et al.</i>	—	—	—
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

RECEIVED

NOV 24 2004

Technology Center 2600

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

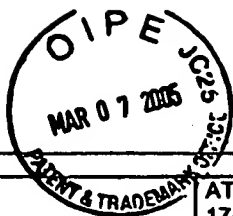
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
	AO		
	AP		
	AQ		
	AR		

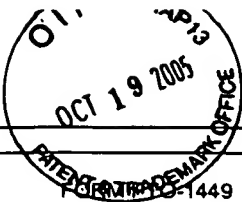
EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449 EIGHTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1744.0250001		APPLICATION NO. 09/476,092	
				INVENTORS SORRELLS <i>et al.</i>		ART UNIT 2686	
				FILING DATE January 3, 2000			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
NM	AC64	6,813,485 B2	11/2004	Sorrells <i>et al.</i>	1	1	11
	AD64	5,410,270	04/1995	Rybicki <i>et al.</i>	1	1	11
	AE64	6,509,777 B2	01/2003	Razavi <i>et al.</i>	1	1	11
	AF64	5,982,329	11/1999	Pittman <i>et al.</i>	1	1	11
	AG64	6,208,636 B1	03/2001	Tawil <i>et al.</i>	1	1	11
	AH64	3,614,630	10/1971	Rorden	1	1	11
	AI64	6,836,650 B2	12/2004	Sorrells <i>et al.</i>	1	1	11
FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
	AN						
	AO						
	AP						
	AQ						
	AR						
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.					5. 676		



95IDS

Page 1 of 3

**NINTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2686**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG65	4,789,837	12/1988	Ridgers			
	AH65	5,634,207	05/1997	Yamaji <i>et al.</i>			
	AI65	5,642,071	06/1997	Sevenhans <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM23	DE 692 21 098 T2	01/1998	DE			No

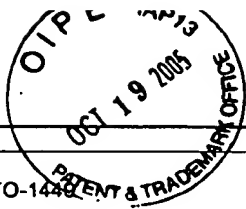
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ59	Hellwarth, G.A. and Jones, G.D, "Automatic Conditioning of Speech Signals," <i>IEEE Transactions on Audio and Electroacoustics</i> , Vol. AU-16, No. 2, pp. 169-179 (June 1968).
	AR59	English Abstract for German Patent No. DE 692 21 098 T2, 1 page, data supplied from the espacenet.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

PATENT & TRADEMARK OFFICE

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092**NINTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2686**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA66	6,211,718 B1	04/2001	Souetinov			
	AB66	6,212,369 B1	04/2001	Avasarala			
	AC66	6,308,058 B1	10/2001	Souetinov <i>et al.</i>			
	AD66	6,633,194 B2	10/2003	Arnborg <i>et al.</i>			
	AE66	2001/0036818 A1	11/2001	Dobrovolny			
	AF66	6,873,836 B1	03/2005	Sorrells <i>et al.</i>			
	AG66	6,879,817 B1	04/2005	Sorrells <i>et al.</i>			
	AH66	6,057,714	05/2000	Andrys <i>et al.</i>			
	AI66	5,994,689	11/1999	Charrier			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092NINTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTFIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA67	6,512,544 B1	01/2003	Merrill <i>et al.</i>			
	AB67	6,628,328 B1	09/2003	Yokouchi <i>et al.</i>			
	AC67	6,801,253 B1	10/2004	Yonemoto <i>et al.</i>			
	AD67	3,737,778	06/1973	Van Gerwen <i>et al.</i>			
	AE67	4,286,283	08/1981	Clemens			
	AF67	4,241,451	12/1980	Maixner <i>et al.</i>			
	AG67	5,014,130	05/1991	Heister <i>et al.</i>			
	AH67	5,390,215	02/1995	Anita <i>et al.</i>			
	AI67	5,805,460	09/1998	Greene <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

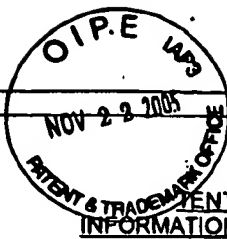
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

FIFTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092

Page 1 of 3

FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA68	6,882,194 B2	04/2005	Belot <i>et al.</i>	—	—	—
	AB68	6,892,062 B2	05/2005	Lee <i>et al.</i>	—	—	—
	AC68	6,917,796 B2	07/2005	Setty <i>et al.</i>	—	—	—
	AD68	6,920,311 B2	07/2005	Rofougaran <i>et al.</i>	—	—	—
	AE68	5,062,122	10/1991	Pham <i>et al.</i>	—	—	—
	AF68	6,182,011 B1	01/2001	Ward	—	—	—
	AG68	6,639,939 B1	10/2003	Naden <i>et al.</i>	—	—	—
	AH68	5,787,125	07/1998	Mittel	—	—	—
	AI68	5,878,088	03/1999	Knutson <i>et al.</i>	—	—	—

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

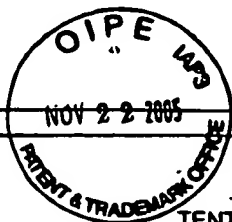
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

**TENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2686**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA69	6,215,828	04/2001	Signell <i>et al.</i>	—	—	—
	AB69	5,703,584	12/1997	Hill	—	—	—
	AC69	5,887,001	03/1999	Russell	—	—	—
	AD69	6,298,065 B1	10/2001	Dombkowski <i>et al.</i>	—	—	—
	AE69	2002/0080728 A1	06/2002	Sugar <i>et al.</i>	—	—	—
	AF69	2002/0163921 A1	11/2002	Ethridge <i>et al.</i>	—	—	—
	AG69	6,963,734 B2	11/2005	Sorrells <i>et al.</i>	—	—	—
	AH69	6,005,506	12/1999	Bazarjani <i>et al.</i>	—	—	—
	AI69	6,438,366 B1	08/2002	Lindfors <i>et al.</i>	—	—	—

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

**TENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2686**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA70	2001/0015673 A1	08/2001	Yamashita <i>et al.</i>	—	—	—
↓	AB70	2003/0045263 A1	03/2003	Wakayama <i>et al.</i>	—	—	—
	AC70	5,196,806	03/1993	Ichihara	—	—	—
	AD70	5,410,195	04/1995	Ichihara	—	—	—
	AE70	6,404,823 B1	06/2002	Grange <i>et al.</i>	—	—	—
	AF70	6,618,579 B1	09/2003	Smith <i>et al.</i>	—	—	—
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

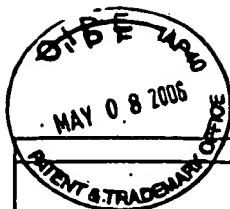
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM PTO-1449

**ELEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.
1744.0250001

APPLICATION NO.
09/478,092

FIRST NAMED INVENTOR
David F. Sorrells

FILING DATE
January 3, 2000

ART UNIT
2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA				—	—	—
↓	AB				↓	↓	↓
	AC						
	AD						
	AE						
	AF						
	AG70	6,975,848 B2	12/2005	Rawlins <i>et al.</i>			
↓	AH70	6,404,758 B1	06/2002	Wang	↓	↓	↓
	AI70	6,909,739 B1	06/2005	Eerola <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ24	WO 98/53556, A2	11/1998	PCT	—	—	N/A
↓	AK24	DT 1936252	01/1971	DT	↓	↓	Yes (Doc. AO60)
↓	AL24	JP 62-12381	01/1987	JP	↓	↓	No
	AM24	JP 4-154227	05/1992	JP			No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
NM	AN60	Gaudiosi, J., "Retailers will bundle Microsoft's Xbox with games and peripherals," <i>Video Store Magazine</i> , Volume 23, Issue 36, pg. 8, 2 pages (September 2-8, 2001).
	AO60	English-language Translation of German Patent Publication No. DT 1936252, translation provided by Transperfect Translations, 12 pages (January 28, 1971 - Date of publication of application).
	AP60	English-language Abstract of Japanese Patent Publication No. JP 62-12381, data supplied by the espacenet, 1 page (January 21, 1987 - Date of publication of application).
	AQ60	English-language Abstract of Japanese Patent Publication No. JP 4-154227, data supplied by the espacenet, 1 page (May 27, 1992 - Date of publication of application).
↓	AR60	English-language Abstract of Japanese Patent Publication No. JP 6-284038, data supplied by the espacenet, 1 page (October 7, 1994 - Date of publication of application).

EXAMINER
/Naghmehe Mehrpour/

DATE CONSIDERED
07/14/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**ELEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2686**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA71	6,910,015 B2	06/2005	Kawal	—	—	—
↓	AB71	3,719,903	03/1973	Goodson	↓	↓	↓
↓	AC71	4,591,930	05/1986	Baumeister	↓	↓	↓
↓	AD71	7,006,805 B1	02/2006	Sorrells <i>et al.</i>	↓	↓	↓
↓	AE71	7,010,288 B2	03/2006	Sorrells <i>et al.</i>	↓	↓	↓
↓	AF71	7,010,559 B2	03/2006	Rawlins <i>et al.</i>	↓	↓	↓
↓	AG71	5,131,014	07/1992	White	↓	↓	↓
↓	AH71	6,393,070 B1	05/2002	Reber	↓	↓	↓
↓	AI71	7,018,663 B2	03/2006	Sorrells <i>et al.</i>	↓	↓	↓

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ25	JP 6-284038	10/1994	JP	—	—	No
↓	AK25	JP 10-96778	04/1998	JP	—	—	No
↓	AL25	JP 11-98205	04/1999	JP	—	—	No
↓	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
NM	AN61	English-language Abstract of Japanese Patent Publication No. JP 10-96778, data supplied by the espacenet, 1 page (April 14, 1998 - Date of publication of application).
NM	AO61	English-language Abstract of Japanese Patent Publication No. JP 11-98205, data supplied by the espacenet, 1 page (April 9, 1999 - Date of publication of application).
	AP	
	AQ	
	AR	

EXAMINER

/Naghmeh Mehrpour/

DATE CONSIDERED

07/14/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

529532_1.DOC

FORM PTO-1449

**ELEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2686**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA72	3,694,754	09/1972	Baltzer	_____	_____	_____
↓	AB72	4,931,716	06/1990	Jovanovic <i>et al.</i>	↓	↓	↓
	AC72	3,617,898	11/1971	Janning, Jr.			
	AD72	3,764,921	10/1973	Huard			
	AE72	4,158,149	06/1979	Otofuji			
	AF72	4,380,828	04/1983	Moon			
	AG72	4,562,414	12/1985	Linder <i>et al.</i>			
↓	AH72	4,814,649	03/1989	Young	↓	↓	↓
	AI72	4,845,389	07/1989	Pyndiah <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER /Naghmeh Mehrpour/

DATE CONSIDERED
07/14/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

**ELEVENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT**

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

FIRST NAMED INVENTOR

David F. Sorrells

FILING DATE

January 3, 2000

ART UNIT

2686

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA73	5,172,019	12/1992	Naylor <i>et al.</i>	—	—	—
↓	AB73	5,263,198	11/1993	Geddes <i>et al.</i>	↓	↓	↓
	AC73	5,551,076	08/1996	Bonn			
	AD73	5,633,610	05/1997	Maekawa <i>et al.</i>			
	AE73	7,027,786 B1	04/2006	Smith <i>et al.</i>			
↓	AF73	7,039,372 B1	05/2006	Sorrells <i>et al.</i>	↓	↓	↓
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

/Naghmeh Mehrpour/

DATE CONSIDERED

07/14/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

529532_1.DOC



FORM PTO-1449
 12th SIXTH SUPPLEMENTAL
 INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
 1744.0250001
 APPLICATION NO.
 09/476,092
 FIRST NAMED INVENTOR
 David F. Sorrells
 FILING DATE
 January 3, 2000
 ART UNIT
 2617

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
NM	AG73	6,591,310 B1	07/2003	Johnson	_____	_____	_____
NM	AH73	6,963,626 B1	11/2005	Shaeffer <i>et al.</i>	_____	_____	_____
NM	AI73	4,811,422	03/1989	Kahn	_____	_____	_____

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
NM	AM25	JP 61-232706	10/1986	JP	_____	_____	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN61	
	AO61	
NM	AP61	English-language Abstract of Japanese Patent Publication No. JP 61-232706, data supplied by the espacenet, 1 page (October 17, 1986 - Date of publication of application).
NM	AQ61	English-language Abstract of Japanese Patent Publication No. JP 9-171399, data supplied by the espacenet, 1 page (June 30, 1997 - Date of publication of application).
NM	AR61	English-language Abstract of Japanese Patent Publication No. JP 10-41860, data supplied by the espacenet, 1 page (February 13, 1998 - Date of publication of application).

EXAMINER /Naghmeh Mehrpour/ DATE CONSIDERED 12/12/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

12th
SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2617

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA74	5,825,257	10/1998	Klymyshyn <i>et al.</i>	—	—	—
	AB74	5,986,600	11/1999	McEwan	↓	↓	↓
	AC74	6,865,399 B2	03/2005	Fujioka <i>et al.</i>	↓	↓	↓
	AD74	2006/0039449 A1	02/2006	Fontana <i>et al.</i>	↓	↓	↓
	AE74	5,847,594	12/1998	Mizuno	↓	↓	↓
	AF74	3,641,442	02/1972	Boucher	↓	↓	↓
	AG74	5,140,699	08/1992	Kozak	↓	↓	↓
	AH74	7,050,058 B2	05/2006	Sorrells <i>et al.</i>	↓	↓	↓
↓	AI74	7,054,296 B1	05/2006	Sorrells <i>et al.</i>	↓	↓	↓

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
NM	AJ26	JP 9-171399	06/1997	JP	—	—	No
NM	AK26	JP 10-41860	02/1998	JP	↓	↓	No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER /Naghmeh Mehrpour/

DATE CONSIDERED
12/12/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

12th FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2617

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA75	7,065,162 B1	06/2006	Sorrells <i>et al.</i>			
	AB75	2003/0149579 A1	08/2003	Begemann <i>et al.</i>			
	AC75	5,063,387	11/1991	Mower			
	AD75	5,535,402	07/1996	Leibowitz <i>et al.</i>			
	AE75	6,512,785 B1	01/2003	Zhou <i>et al.</i>			
	AF75	6,567,483 B1	05/2003	Dent <i>et al.</i>			
	AG75	6,775,684 B1	08/2004	Toyoyama <i>et al.</i>			
	AH75	4,740,792	04/1988	Sagey <i>et al.</i>			
	AI75	5,239,687	08/1993	Chen			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER /Naghmeh Mehrpour/

DATE CONSIDERED
12/12/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

12th FORM PTO-1449

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2617

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA76	5,552,789	09/1998	Schuermann			
	AB76	5,905,433	05/1999	Wortham			
	AC76	6,647,270 B1	11/2003	Himmelstein			
	AD76	6,034,588	03/2000	Ohe			
	AE76	6,313,700 B1	11/2001	Nishijima <i>et al.</i>			
	AF76	6,959,178 B2	10/2005	Macedo <i>et al.</i>			
	AG76	6,999,747 B2	02/2006	Su			
	AH76	2004/0125879 A1	07/2004	Jaussi <i>et al.</i>			
↓	AI76	7,072,390 B1	07/2006	Sorrells <i>et al.</i>	↓	↓	↓

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER /Naghmeh Mehrpour/

DATE CONSIDERED
12/12/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

ATTY. DOCKET NO.

1744.0250001

APPLICATION NO.

09/476,092

12th

SIXTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

FIRST NAMED INVENTOR

David F. Sorrells

FILING DATE

January 3, 2000

ART UNIT

2617

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA77	7,072,427 B2	07/2006	Rawlins et al.	_____	_____	_____
NM	AB77	7,076,011 B2	07/2006	Cook et al.	_____	_____	_____
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER

/Naghmeh Mehrpour/

DATE CONSIDERED

12/12/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

THIRTEENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET No.
1744.0250001APPLICATION No.
09/478,092FIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2617

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
NM	AC77	7,082,171 B1	07/2006	Johnson <i>et al.</i>			
	AD77	7,085,335 B2	08/2006	Rawlins <i>et al.</i>			
	AE77	3,739,282	06/1973	Bruch <i>et al.</i>			
	AF77	4,439,787	03/1984	Mogl <i>et al.</i>			
	AG77	4,866,441	09/1989	Conway <i>et al.</i>			
	AH77	4,885,671	12/1989	Pell			
	AI77	5,164,985	11/1992	Nysen <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
NM	AL26	JP 10-173583	06/1998	JP			Yes (Doc. AN62)
	AM						Yes No

NON-PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL	DOC. REF.	CITATION
NM	AN62	English-language Computer Translation of Japanese Patent Publication No. JP 10-173583, provided by the JPO, 10 pages (June 26, 1998 - Date of publication of application) and cited in U.S. Patent Application Ser. No. 10/305,299, directed to related subject matter.
NM	AO62	What is I/Q Data?, printed September 16, 2006, from http://zone.ni.com , 8 pages (Copyright 2003).
	AP	
	AQ	
	AR	

EXAMINER /Naghmeh Mehrpour/

DATE CONSIDERED
12/08/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

ATTY. DOCKET NO.
1744.0250001APPLICATION NO.
09/476,092THIRTEENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTFIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2617**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA78	5,734,683	03/1998	Hulkko <i>et al.</i>			
	AB78	5,918,167	06/1999	Tiller <i>et al.</i>			
	AC78	6,445,726 B1	09/2002	Gharpurey			
	AD78	6,560,451 B1	05/2003	Somayajula			
	AE78	2,530,824	11/1950	King			
	AF78	7,107,028 B2	09/2006	Sorrells <i>et al.</i>			
	AG78	7,110,435 B1	09/2006	Sorrells <i>et al.</i>			
	AH78	7,110,444 B1	09/2006	Sorrells <i>et al.</i>			
	AI78	6,973,476 B1	12/2005	Naden <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

NON-PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER /Naghmeh Mehrpour/

DATE CONSIDERED
12/08/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449

ATTY. DOCKET No.
1744.0250001APPLICATION No.
09/478,092THIRTEENTH SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTFIRST NAMED INVENTOR
David F. SorrellsFILING DATE
January 3, 2000ART UNIT
2617

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
NM	AA79	5,834,987	11/1998	Dent			
	AB79	RE37,138 E	04/2001	Dent			
	AC79	6,441,694 B1	08/2002	Turcotte <i>et al.</i>			
	AD79	6,892,057 B2	05/2005	Nielsen			
	AE79	6,741,650 B1	05/2004	Painchaud <i>et al.</i>			
	AF79	6,441,659 B1	08/2002	Demone			
↓	AG79	2002/0132642 A1	09/2002	Hines <i>et al.</i>	↓	↓	↓
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

NON-PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
	AQ	
	AR	

EXAMINER /Naghmeh Mehrpour/

DATE CONSIDERED
12/08/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.